SPECIFICATIONS

Model

HS2.4S

HS-series

0.4kW, 1-phase

Type of Pump

Submersible drainage pump for construction and foundation works, floodwater drainage, etc.

Type of Fluid

Stormwater, groundwater, wash water, and sand-carrying water

Temperature: 0 to 40°C

Discharge Bore & Connection

50mm, Hose Coupling

Motor Output

0.4kW

Power Supply

Single-phase

Starting Method

Capacitor Run

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: E

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000/3600min-1 (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz 60Hz

220V – 2.7A 110V – 5.4A 230V – 2.6A 220V – 2.7A

240V - 2.6A

Power Cable

Sheath: PVC

Standard Length: 5m 100 to 240V supply:

1 x 3 x 1.25mm², O.D. 10.1mm

Dry Weight (excluding cable)

11.3kg

Impeller

Vortex impeller deigned for "high-gap structure", made of urethane rubber

Solids Passage

50Hz − *ϕ*7mm

60Hz - ∮7mm

Agitator

Sintered alloy

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft

403 stainless steel

Shaft Seal (Mechanical Seal)

Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Upper Seal Face: Ceramic + Carbon Lower Seal Face: SiC + Ceramic

OIL LIFTER (Patented)

Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 160ml

Motor Protection Device

A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.

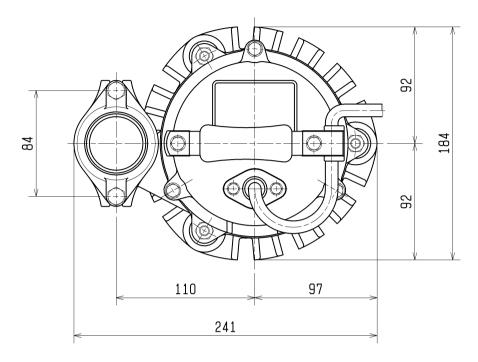
NO. A-14663-2 PUMP PERFORMANCE CURVES HS2.4S -63 TYPE MODEL FREQUENCY Submersible Portable 60 Dewatering Pump HSZ2.4S -63 Ηz CUSTOMER'S NAME EQUIPMENT TITLE NO. REQUIRED SPECIFICATIONS STANDARD SPECIFICATIONS 50 DISCHARGE BORE 8 TOTAL HEAD m 0.1 m³∕min m³/min CAPACITY 0.4 MOTOR OUTPUT k₩ ΚW PHASE × VOLTAGE 1 φ× ٧ φX CURRENT Α 2 P/ S.S. 3600 min^{-1} POLES / REVOLUTION P/ STARTING METHOD CAPACITOR MOTOR Ε INSULATION CLASS REMARKS: 12 + 10 100 +90+ +08- 8 70 +6 60 +50 +40 \pm PUMP EFF. 30+0.6+ hutput 20+0.4+ 10+0.2+ % k W 0.1 0.2 m³/min PUMP MOTOR TOTAL EFF. OUTPUT HEAD CAPACITY TSURUMI MFG. CO., LTD.

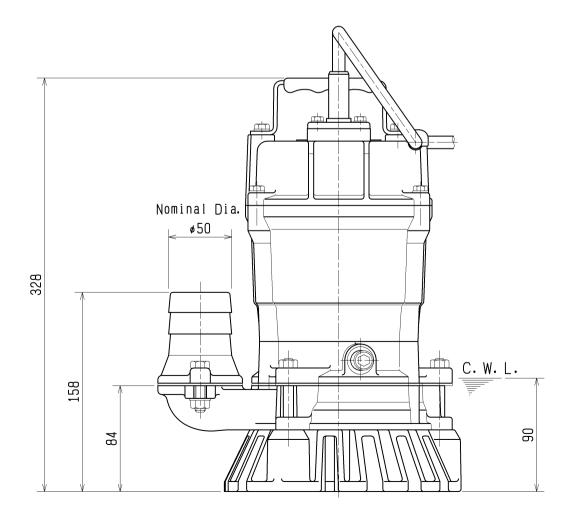


DIMENSION	DRAWING	No.		No.	A-09152-3
TYPE Submersible Dewatering		MODEL	HS2.4S	- 5	3/63

Approximate Weight(*)

11.3kg
*excluding cable

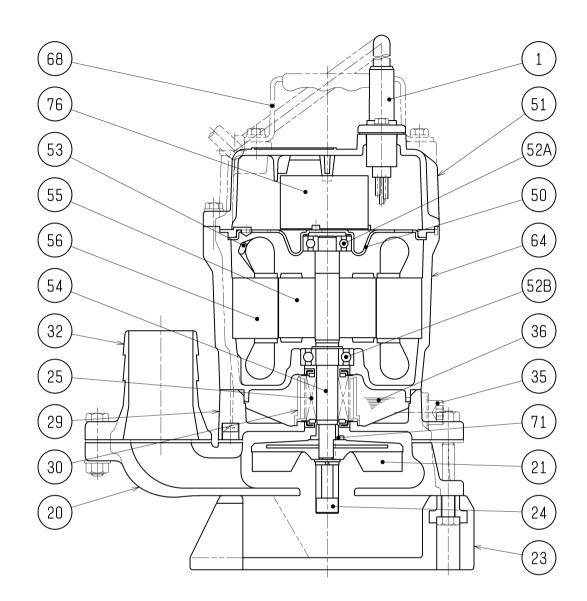




C. W. L. : Continuous running Water Level



	SECTIONAL	DRAWIN	G	No.		No.	A-09153-7
TYPE	Submersible Portable Dewa	tering Pump	MODEL	•	HS2.4S	- 5	3/63



REQ. SPECIFICATION
<u> </u>

No.	DESCRIPTION	Q' TY	MATERIAL / NOTE	No.	DESCRIPTION	Q' TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	52A	Upper Bearing	1	6201ZZC3
20	Pump Casing	1	Gray Iron Casting	52B	Lower Bearing	1	6202ZZC3
21	Impeller	1	Urethane Rubber	53	Motor Protector	1	
23	Strainer Stand	1	Vinyl Chloride	54	Shaft	1	Stainless Steel 403
24	Agitator	1	Sintered Alloy	55	Rotor	1	
25	Mechanical Seal	1	W-14VCA	56	Stator	1	
29	Oil Casing	1	Gray Iron Casting	64	Motor Frame	1	Aluminium Die Casting
30	Oil Lifter	1	Plastic	68	Handle	1	Steel Sheet & Natural Rubber
32	Hose Coupling	1	Aluminium Die Casting	71	Shaft Sleeve	1	Stainless Steel 304
35	Oil Plug	1	Stainless Steel 304	76	Capacitor	1	
36	Lubricant		Turbine Oil (ISO VG32)				
50	Motor Bracket	1	Steel Sheet				
51	Motor Head Cover	1	Aluminium Die Casting				