

SPECIFICATIONS

Model

50UT2.4

UT-series

0.4kW, 3-phase

Type of Pump

Submersible cast iron vortex pump suitable for pumping sewage and wastewater

Type of Fluid

Sewage, wastewater, and water carrying solid matters

Temperature: 0 to 40°C

Discharge Bore

50mm

Motor Output

0.4kW

Power Supply

Three-phase

Starting Method

Direct on Line

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

380V - 1.2A 220V - 2.2 A 400V - 1.3A 380V - 1.2 A 415V - 1.4A 440V - 1.05A

Power Cable

Sheath: PVC

Standard Length: 5m 200 to 600V supply:

 $1 \times 4 \times 1.25$ mm², O.D. 11.1mm

Dry Weight (excluding cable)

13kg

Impeller

Vortex impeller made of glass-fiber reinforced PPO

Solids Passage 50Hz – ∮35mm

60Hz - ∮35mm

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.

Bearings

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 Faces: Ceramic + Carbon Lower Seal Faces: Ceramic + Carbon

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 circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Optional Accessories

TOK Set (Guide Rail Fitting Type)

- Duckfoot Bend
- Guide Support
- Guide Hook
- · Lifting Chain 4m (with Shackles)

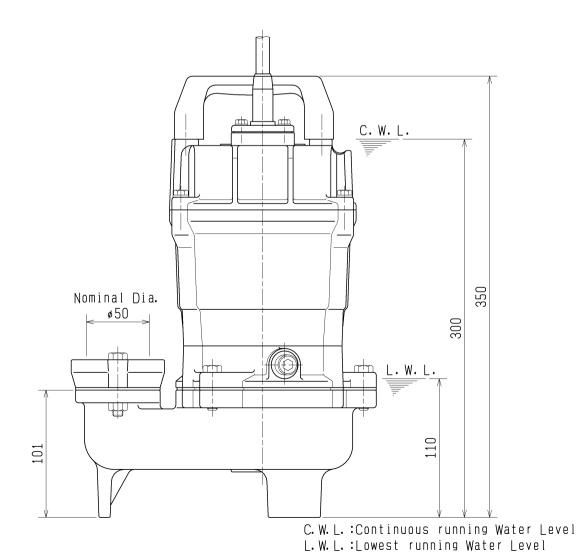
NO. A-20678-1 PUMP PERFORMANCE CURVES TYPE MODEL FREQUENCY 50UT2.4 -52 Sewage Submersible Vortex Pump 50 Ηz CUSTOMER'S NAME EQUIPMENT TITLE NO. STANDARD SPECIFICATIONS REQUIRED SPECIFICATIONS 50 DISCHARGE BORE MAX. 9.0 TOTAL HEAD Ш MAX. 0.3 m³/min m³/min CAPACITY 0.4 MOTOR OUTPUT k₩ k W 3 ø× PHASE × VOLTAGE ٧ φX CURRENT Α $2 \text{ P/} \text{ S. S. } 3000 \text{ min}^{-1}$ min^{-1} POLES / REVOLUTION P / STARTING METHOD DIRECT ON LINE INSULATION CLASS Ε REMARKS: - 12 + 10 100+90+ - 8 +0870+ - 6 60 +50 +PUMP EFF 40+ + 430+0.6+ 20+0.4+ NUTPUT 10+0.2+ % k W 0.2 0.1 0.3 m³/min PUMP MOTOR TOTAL EFF. OUTPUT HEAD CAPACITY TSURUMI MFG. CO., LTD.



DIMENSION DRAWING	3 No.	No. A-20690-1
TYPE Sewage Submersible Vortex Pump	MODEL	50UT2.4S -52/62 50UT2.4 -52/62

MODEL	Approximate Weight(*)			
50UT2.4S-52/62	13.5kg			
50UT2.4 -52/62	13kg			
	excluding cable			79 82
			7	
	<	115	90	

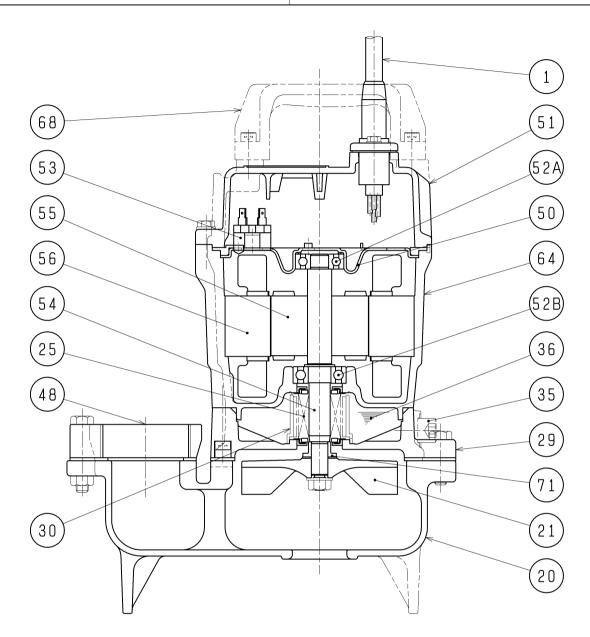
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SECTIONAL DRAWING No. No. A-20699-2

TYPE Sewage Submersible Vortex Pump MODEL 50UT2. 4 -52/62



REQ. SPECIFICATION							

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	Plastic W/GF	53	Motor Protector	1	
25	Mechanical Seal	1	W-14VCA	54	Shaft	1	Stainless Steel 403
29	Oil Casing	1	Gray Iron Casting	55	Rotor	1	
30	Oil Lifter	1	Plastic	56	Stator	1	
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Gray Iron Casting
36	Lubricant		Turbine Oil (ISO VG32)	68	Handle	1	Plastic
48	Screwed Flange	1	Gray Iron Casting	71	Shaft Sleeve	1	Stainless Steel 304
50	Motor Bracket	1	Steel Sheet				
51	Head Cover	1	Gray Iron Casting				