

SPECIFICATIONS

Model

150B411

B-series

11kW, 3-phase

Type of Pump

Submersible cast iron pump suitable for pumping sewage, wastewater, storm water, etc.

Type of Fluid

Sewage, wastewater, and water carrying solid matters

Temperature: 0 to 40°C

(High temperature model available on special request)

Discharge Bore

150mm

Motor Output

11kW

Power Supply

Three-phase

Starting Method

Star-Delta

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: F

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

4-pole, 1500/1800min⁻¹ (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz 60Hz

380V - 24.4A 220V - 40.7A 400V - 23.8A 380V - 22.9A 415V - 23.5A 440V - 20.1A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m

200 to 600V supply:

 $1\times4\times3.5 mm^2,$ O.D. 14.1 mm

 $1\times3\times3.5 mm^2,\,O.D.\,12.9 mm$

 $1 \times 2 \times 1.25$ mm², O.D. 9.8mm

Dry Weight (excluding cable)

Free Standing Type: 250kg Guide Rail Fitting Type: 220kg

Impeller

Shrouded two-channel impeller for solid-handling design, dynamically balanced

Solids Passage

50Hz - ∮75mm

60Hz - ∮75mm

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

420 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: SiC + SiC Lower Seal Faces: SiC + SiC

Oil Seal (Lip Seal)

Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

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), 4200ml

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.

Optional Accessories

Bend Set (Free Standing Type)

- Discharge Bend
- JIS 10kg/cm² Screwed Flange

Stand Set (Free Standing Type)

Stand

TOS Set (Guide Rail Fitting Type)

- Duckfoot Bend
- Guide Support
- Guide Hook
- Lifting Chain 5m (with Shackles)
- JIS 10kg/cm² Screwed Flange

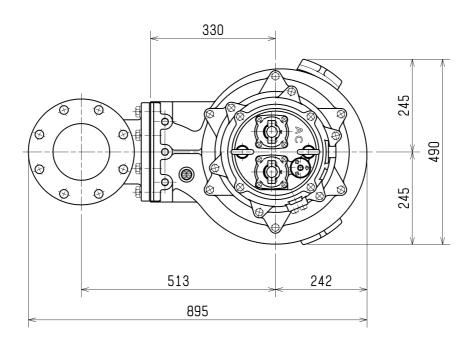
External Leakage Sensor

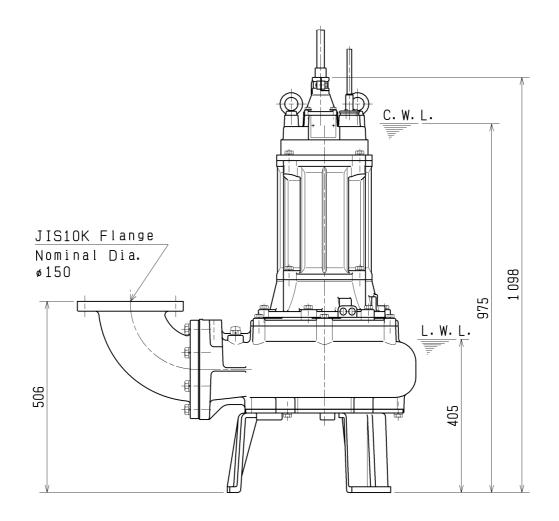
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			NO.	A-13997-1
PUMP	PERFORMA	NCE (CURVES	
TYPE Sewage Subme		150E		FREQUENCY
	eller Pump	1051506	411 -53	50 нz
CUSTOMER'S NAME				
EQUIPMENT TITLE			NO	
	STANDARD SPECIFI	CATIONS		PECIFICATIONS
DISCHARGE BORE	150	mm	NEWOINED 3	mm
TOTAL HEAD	15.5	m		m
CAPACITY	2. 5	m³/min		m³/min
MOTOR OUTPUT PHASE × VOLTAGE	11 3 ø×	k W		k W
CURRENT	3 φ ∧	Α		φ ^ v
POLES / REVOLUTION	4 P/ S.S.	1500 min ⁻¹	P/	min ⁻¹
STARTING METHOD	STAR-DEL	ΓΑ		
INSULATION CLASS	F			
			REMARKS:	
24				
100+ + 20				
90+ + -	TO A			
80+ + 16				
70+ +	FEF.			
60+ + 12	PUMP EFF.			
50+ +				
40+ + 8				
30+15+				
	OUTPUT			
20 + 10 + 4	001101			
10+ 5+				
-				
% kW m 1	2 3	4	5	6 m³/min
PUMP OUT TOTAL CAPACIT	Υ			
TSUR	UMI MFG. CO.	. I TD.		
				i



DIMENSION DRAWING	No.	No. A-14010-1
TYPE Sewage Submersible	MODEL	150B411 -53/63
Channel Impeller Pump		1300411 -33/03

Approximate Weight(*)
250kg
**excluding cable

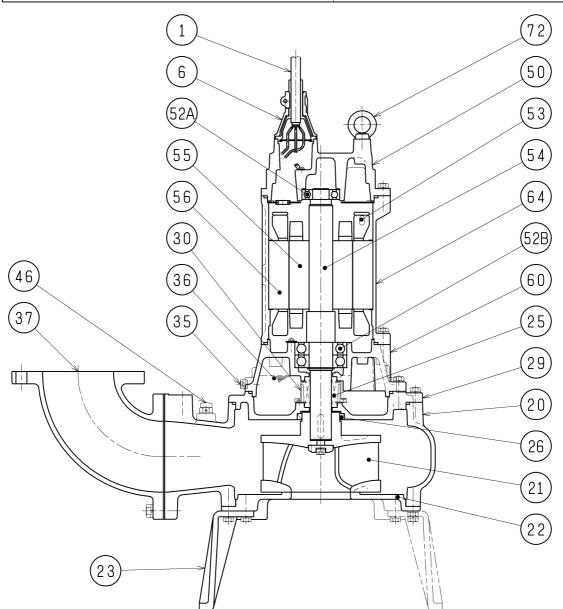




C. W. L. :Continuous Running Water Level L. W. L. :Lowest Running Water Level



SECTIONAL	DRAWING	No.	No. A-14017-1
TYPE Sewage Submers Channel Impel		150B41	1 -53/63



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No.	DESCRIPTION	Q' TY	MATERIAL / NOTE	No.	DESCRIPTION	Q' TY	MATERIAL / NOTE
1	Cabtyre Cable	3	Chloroprene Sheath	46	Air Release Valve	1	Nylon
6	Stuffing Box	2	Gray Iron Casting	50	Motor Blacket	1	Gray Iron Casting
20	Pump Casing	1	Gray Iron Casting	52A	Upper Bearing	1	6307ZZC3
21	Impeller	1	Gray Iron Casting	52B	Lower Bearing	1	6310ZZD2C3
22	Suction Cover	1	Gray Iron Casting	53	Motor Protector	3	
23	Stand	3	Ductile Iron Casting	54	Shaft	1	Stainless Steel 420J2
25	Mechanical Seal	1	H-45	55	Rotor	1	
26	Oil Seal	1	TC8010013	56	Stator	1	
29	Oil Casing	1	Gray Iron Casting	60	Bearing Housing	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Gray Iron Casting
35	Oil Plug	2	Stainless Steel 304	72	Eye Bolt	2	Structure Steel
36	Lubricant		Turbine Oil (ISO VG32)				
37	Discharge Bend	1	Gray Iron Casting				