

SPECIFICATIONS

Model

100C45.5

C-series

5.5kW, 3-phase

Type of Pump

Submersible cast iron pump with a cutting device suitable for pumping sewage and wastewater

Type of Fluid

Sewage, wastewater, and water carrying solid matters

Temperature: 0 to 40°C

(High temperature model available on special request)

Discharge Bore

100mm

Motor Output

5.5kW

Power Supply

Three-phase

Starting Method

Direct on Line (Star-Delta available on special request)

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 - 12.4A 220V - 21.2A 400V - 12.1A 380V - 11.8A 415V - 12.1A 440V - 10.5A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply:

 $1 \times 4 \times 3.5$ mm², O.D. 14.1mm

Dry Weight (excluding cable)

Free Standing Type: 140kg Guide Rail Fitting Type: 133kg

Impeller

Semi-open single-channel impeller for solid-handling design, dynamically balanced. A sintered tungsten carbide alloy edge is blazed on the impeller vane.

Solids Passage 50Hz – 82 × 68mm 60Hz – 68 × 68mm

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: Ceramic + Carbon

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), 4300ml

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

Bend Set (Free Standing Type)

- Discharge Bend
- JIS 10kg/cm² Screwed Flange

Stand Set (Free Standing Type)

Stand

TOS/TS Set (Guide Rail Fitting Type)

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

External Leakage Sensor

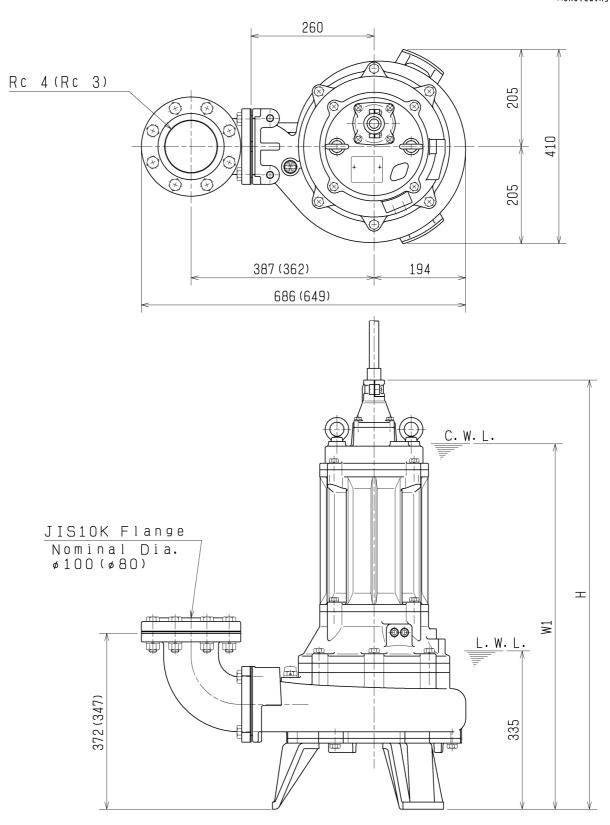
		_			<u> </u>		
					NO.		8744-1
PUMP	PERFO	T				3	
TYPE Sewage Submersible C	utter Pump		100 TOS100			FREQU	JENCY 60 h
CUSTOMER'S NAME							
EQUIPMENT TITLE					N	0.	
	STANDARD	SPECIFIC	ATIONS	RF	_		ICATIONS
DISCHARGE BORE	10				2011120	0, 201,	mı
TOTAL HEAD		3		m			
CAPACITY		0.8	m³/mi	n			m³/mi
MOTOR OUTPUT		5.5	k	W			k'
PHASE × VOLTAGE	3	φ×		V		φ×	
CURRENT				А			
POLES / REVOLUTION	4 P/	s.s.1	.800 mir	-1	P /		min
STARTING METHOD	DIREC	T ON L	INE				
INSULATION CLASS		F					
				REMA	RKS:		
+ + 24							
100+ + 20							
90							
80 + 16							
70++-	TOTALHE						
-	ME	1.					
60 + 12							
50+ + -							
	PUMP EF	F					
40+ + 8	PUM						
30 + 6 +	OUTDUT			/			
20 + 4 + 4	OUTPUT					_	
10 - 2 -							
% kW m 0.4	0.8	1. 2	1.6	2.	0	2. 4	m³/min
PUMP MOTOR TOTAL CAPACITY	Y						
TSUR	UMI MFG.	CO	I TD.				



DIMENSION DRAWING	a No.	No. A-18781-1
TYPE Sewage Submersible Cutter Pump	MODEL	100C45.5 -53/63 100C47.5 -53/63

MODEL	W 1	Н	Approximate Weight(*)
100C45.5-53/63	775	908	140kg
100C47.5-53/63	800	929	159kg

*excluding cable



The Figure in () shows the dimensions of discharge Bore at Nominal $\phi 80$.

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



SECTIONAL DRAWIN	G No.	No. A-18798-1
TYPE Sewage Submersible Cutter Pump	MODEL	100C45.5 -53/63 100C47.5 -53/63

