

SPECIFICATIONS

Model

100B45.5

B-series

5.5kW, 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

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: 147kg Guide Rail Fitting Type: 140kg

Impeller

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

Solids Passage 50Hz - 40 × 51mm

 $60Hz - 40 \times 43mm$

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

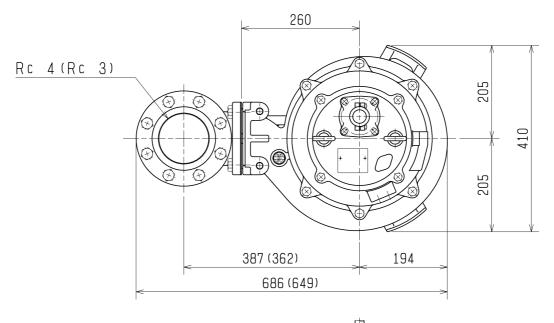
						18727-1
PUMP	PERFOR					
TYPE Sewage Subme Channel Imp				345.5 -54 345.5 -54	I	QUENCY 50 h
CUSTOMER'S NAME						
EQUIPMENT TITLE					NO.	
	STANDARD SP	ECIFIC <i>F</i>	TIONS	REQUIRE	 D SPECII	FICATIONS
DISCHARGE BORE	100		mm			m
TOTAL HEAD	20		m			
CAPACITY	0.		m³/min			m ³ / mi
MOTOR OUTPUT	5.		k W			k
PHASE × VOLTAGE	3 ø	×	V		φ×	
CURRENT	1 D (s. s. 1	$\frac{A}{500 \text{ min}^{-1}}$			mir
POLES / REVOLUTION STARTING METHOD	4 ₽∕ DIRECT			P		
INSULATION CLASS		F	IN L			
INGULATION GENER		-				
90 20 70 60	10 AL 14 AD					
50 10 30 10	PUMP EFF.					
20 + 6 +	OUTPUT					
10 4	001701					
% kW m	1.0		<u> </u>	2. 0		m³/min
PUMP MOTOR TOTAL CAPACITERS. OUTPUT HEAD						2 10211

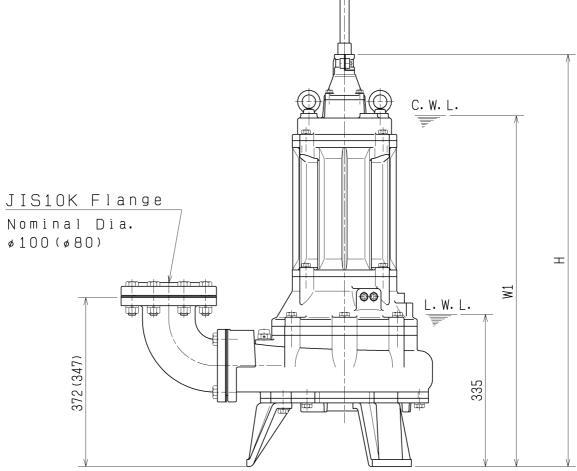


DIMENSION DRAWING	No.	No. A-18775-1
TYPE Submersible Channel	MODEL	100B45.5 -54/64
Impeller Sewage Pump		100B47.5 -54/64

MODEL	W1	Н	Approximate Weight(*)
100B45.5-54/64	775	908	147kg
100B47.5-54/64	800	929	169kg

*excluding cable





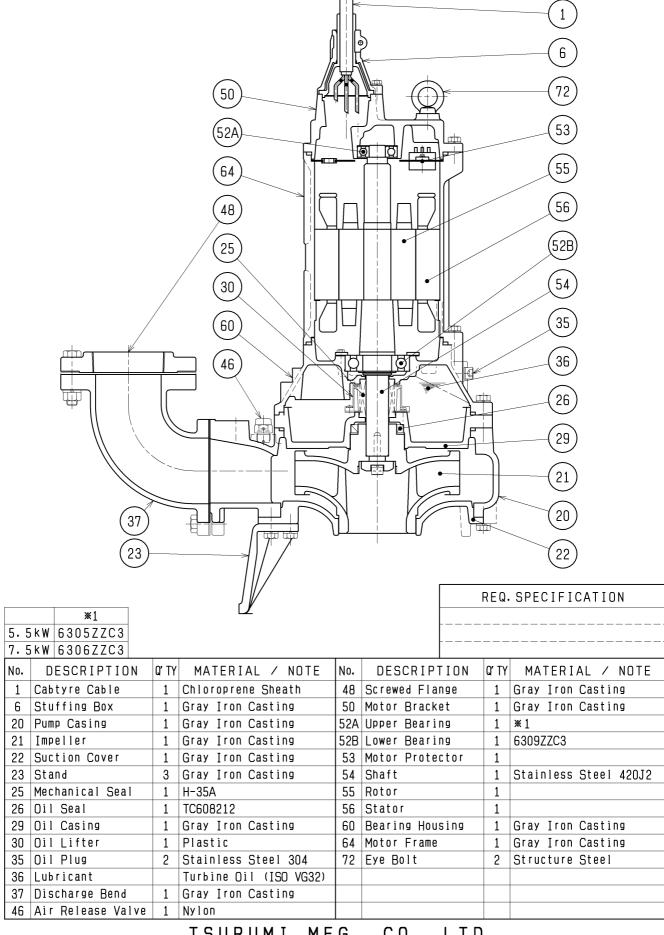
The Figure in () shows the dimensions of discharge Bore at Nominal ø80.

C. W. L.: Continuous running Water Level

L. W. L.: Lowest running Water Level



SECTIONAL DRAWING	No. No. A-18792-1
TYPE Sewage Submersible	MODEL 100B45.5 -54/64
Channel Impeller Pump	100B47.5 -54/64



TSURUMI MFG. CO., LTD