SPECIFICATIONS	Model	200B411	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
200mm

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 × 4 × 3.5mm^2, O.D. 14.1mm
1 × 3 × 3.5mm^2, O.D. 12.9mm
1 × 2 × 1.25mm^2, O.D. 9.8mm

Dry Weight (excluding cable)
Free Standing Type: 258kg
Guide Rail Fitting Type: 263kg

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

Solids Passage
50Hz – 68 × 60mm
60Hz – 65 × 58mm

Cable Entry with Anti-Wicking Block
Watertight cable entry with strain-relief device. The anti-wicking 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), 6400ml

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 Accessory

External Leakage Sensor

NO. A-18735-1

PUMP PERFORMANCE CURVES

TYPE	MODEL	FREQUENCY
Sewage Submersible Channel Impeller Pump	200B411 -54 TO200B411 -54	50 Hz

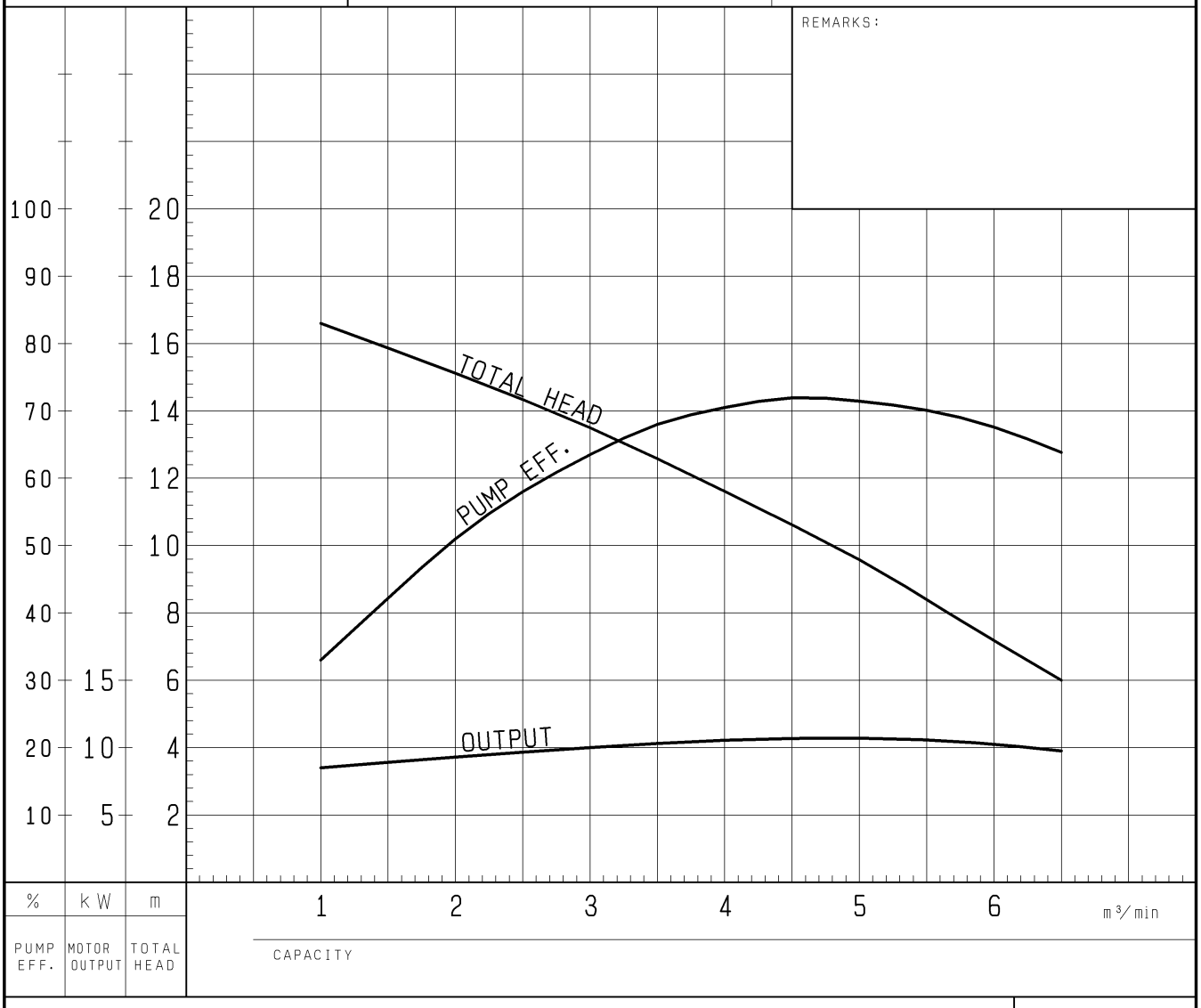
CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	200 mm	mm
TOTAL HEAD	10 m	m
CAPACITY	4.5 m³/min	m³/min
MOTOR OUTPUT	11 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	4 P / S.S. 1500 min⁻¹	P / min⁻¹
STARTING METHOD	STAR-DELTA	
INSULATION CLASS	F	

REMARKS:



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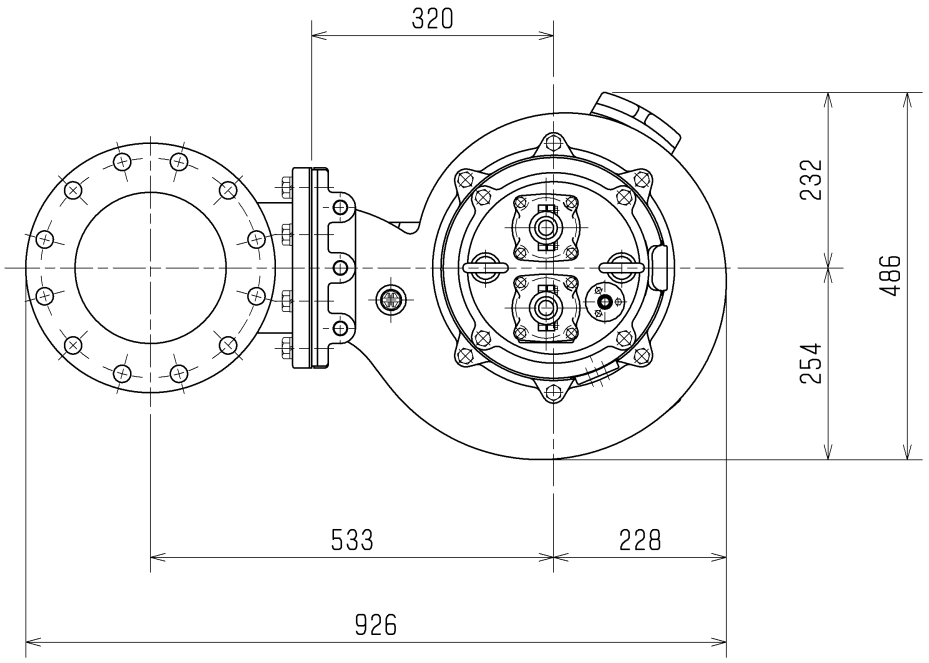
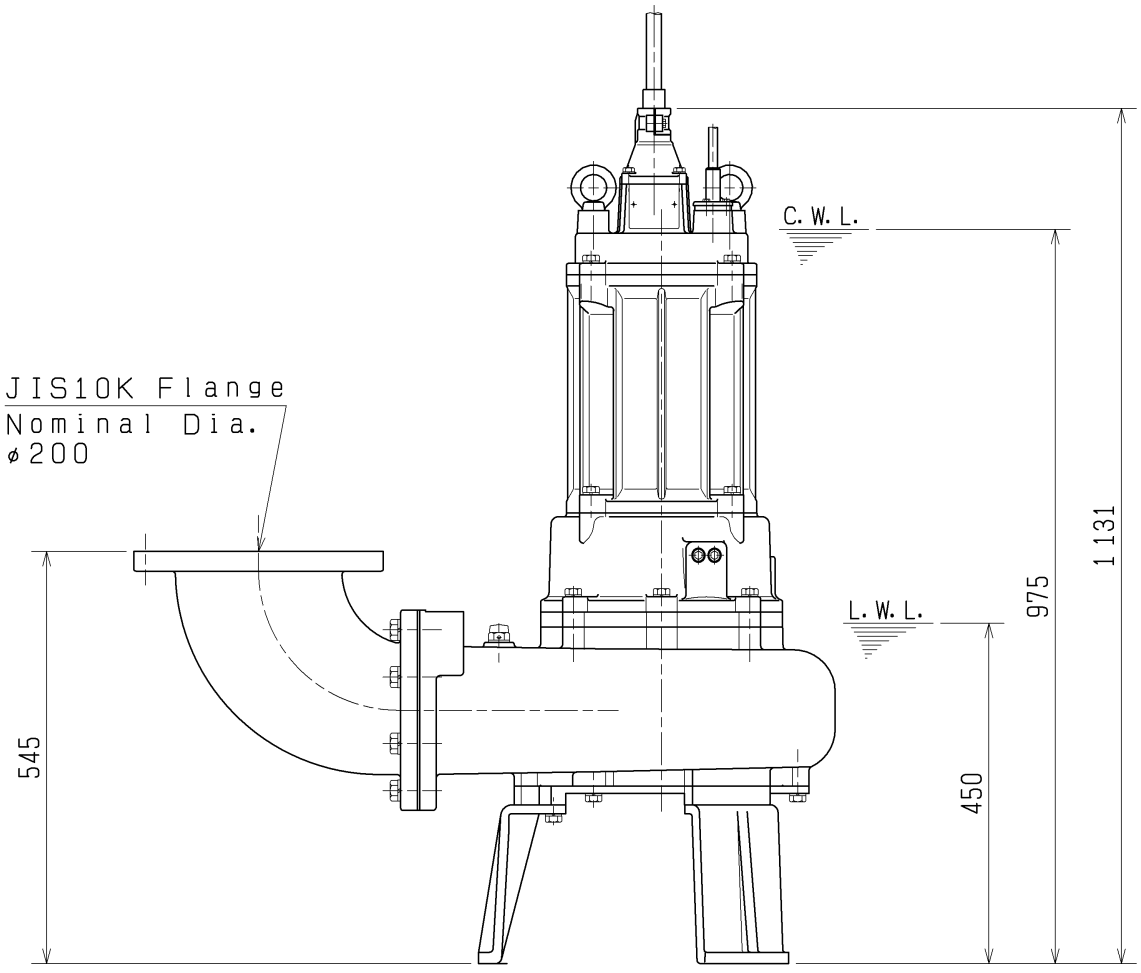
TSURUMI PUMP

DIMENSION DRAWING	No.		No.	A-18777-1
TYPE Sewage Submersible Channel Impeller Pump		MODEL 200B411 -54/64		

Approximate Weight(※)
258kg

※excluding cable

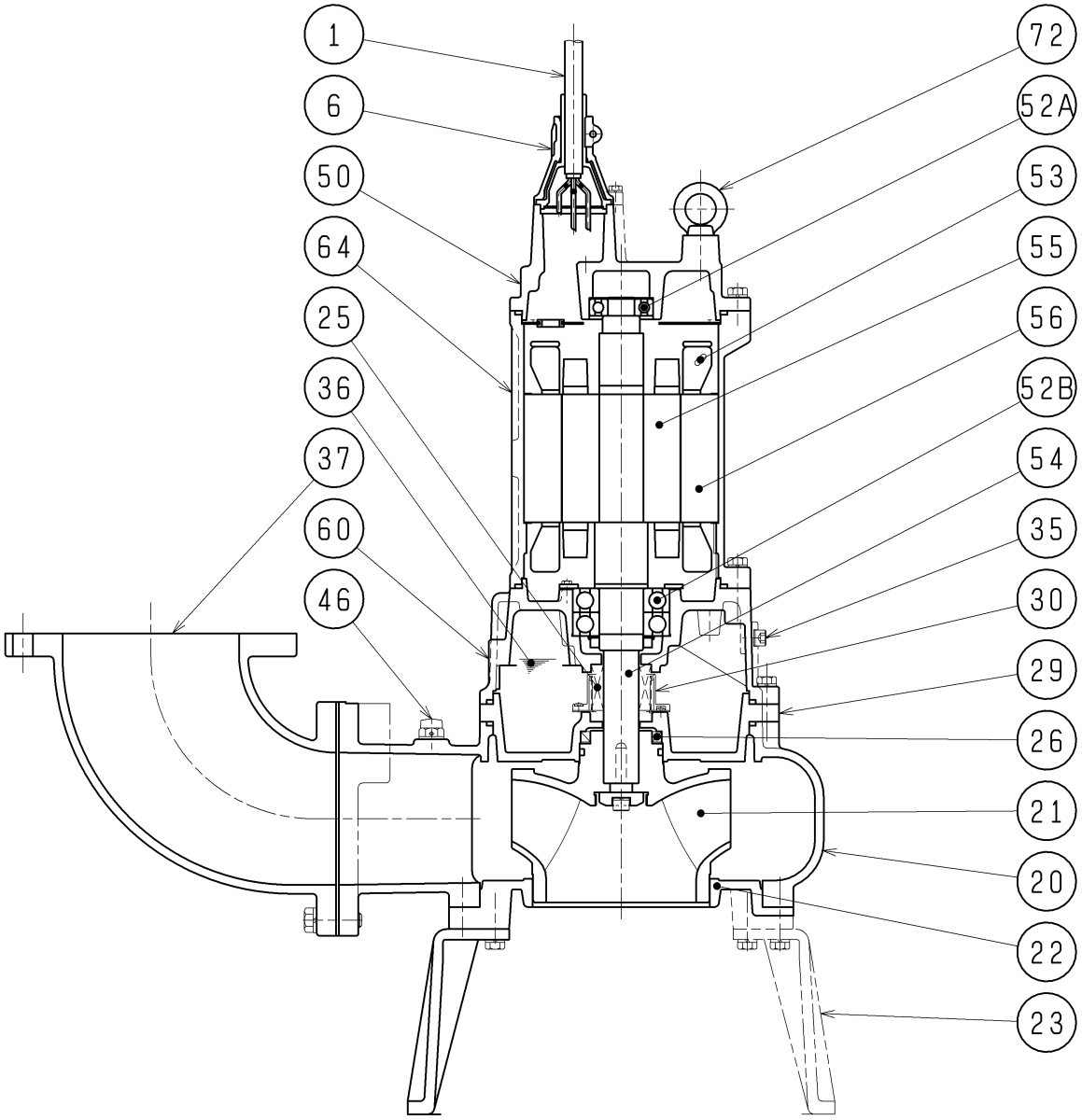




C. W. L. :Continuous running Water Level
L. W. L. :Lowest running Water Level

TSURUMI PUMP

SECTIONAL DRAWING	No.		No.	A-18794-1
TYPE Sewage Submersible Channel Impeller Pump		MODEL 200B411 -54/64		



REQ. SPECIFICATION

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 Bracket	1	Gray Iron Casting
20	Pump Casing	1	Gray Iron Casting	52A	Upper Bearing	1	6306ZZC3
21	Impeller	1	Gray Iron Casting	52B	Lower Bearing	1	6310ZZD2C3
22	Suction Cover	1	Gray Iron Casting	53	Motor Protector	1	
23	Stand	3	Ductile Iron Casting	54	Shaft	1	Stainless Steel 420J2
25	Mechanical Seal	1	H-40	55	Rotor	1	
26	Oil Seal	1	TC709212	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	Eyebolt	2	Structure Steel
36	Lubricant		Turbine Oil(ISO VG32)				
37	Discharge Bend	1	Gray Iron Casting				

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