

SPECIFICATIONS

Model

200B415

B-series

15kW, 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

15kW

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 - 32.6A 220V - 54.6A 400V - 31.9A 380V - 30.7A 415V - 31.2A 440V - 27.2A

Power Cable

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

 $1 \times 4 \times 5.5$ mm², O.D. 16.8mm $1 \times 3 \times 5.5$ mm², O.D. 15.2mm $1 \times 2 \times 1.25$ mm², O.D. 9.8mm

Dry Weight (excluding cable)

Free Standing Type: 300kg Guide Rail Fitting Type: 285kg

Impeller

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

Solids Passage 50Hz - 70 × 60mm 60Hz - 69 × 60mm

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), 5500ml

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

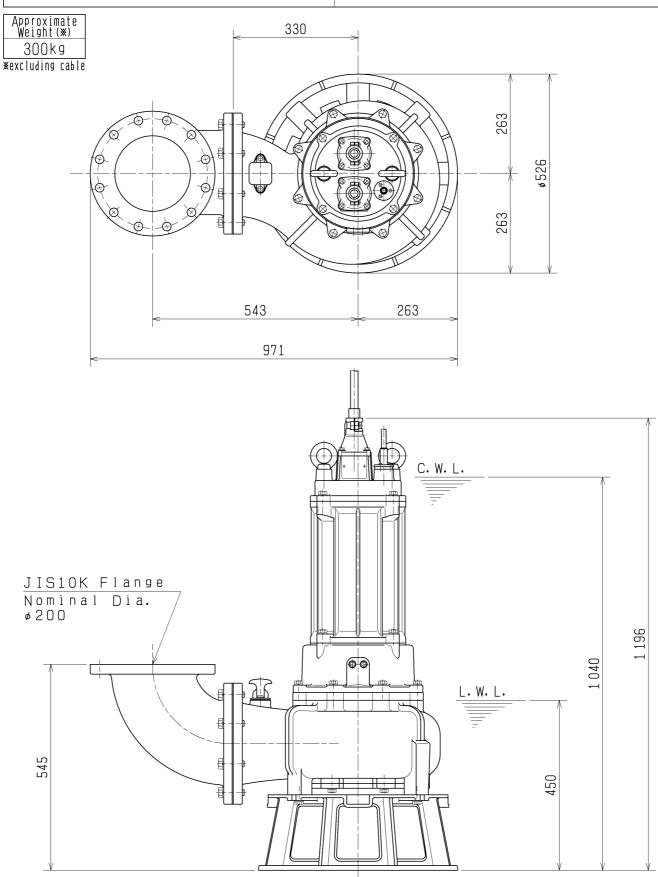
External Leakage Sensor

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			NO.	A-18	3737-1
PUMP	PERFORMA	NCE (CURVES	3	
TYPE Sewage Subme		200E		FREQUE	F 0
Channel Imp	eller Pump	102008	415 -53		50 Hz
CUSTOMER'S NAME					
EQUIPMENT TITLE			N	0.	
	T				
DISCHARGE BORE	STANDARD SPECIFI 200	CATIONS	REQUIRED	SPECIFIC	CATIONS
TOTAL HEAD	14	m			
CAPACITY	4. 5	m³/min			m³/min
MOTOR OUTPUT	15	k W			k W
PHASE × VOLTAGE	3 ø×	V		φ×	V
CURRENT POLES / REVOLUTION	4 P/ S.S.	1500 min ⁻¹	P /		A min ⁻¹
STARTING METHOD	STAR-DELT	1000	F /		
INSULATION CLASS	F				
			_		
			REMARKS:		
+ + -					
+ + -					
100+ + 20					
90+					
80 + 16	TO TALL HEAD				
	PUMP EFF.				
70+ + =					
60 + 12					
50++					
40 + 8					
30 + 15 +	OUT PUT				
		1			
20 + 10 + 4					
10 + 5 +					
% kW m 2	4 6	8	10	12	m³/min
PUMP MOTOR TOTAL CAPACI	ТҮ				
TSUF	RUMI MFG, CO.	,LTD.			



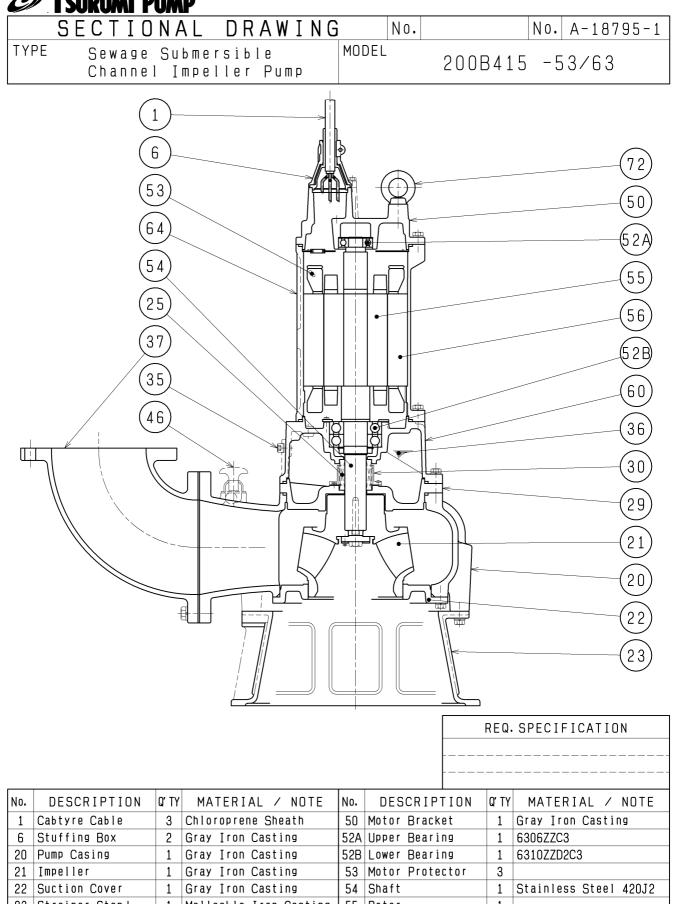
DIMENSION DRAWING No. No. A-18778-1

TYPE Sewage Submersible Channel Impeller Pump MODEL 200B415 -53/63



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





1110.	DESCRIPTION	Q 11	TIATENTAL / NOTE	1110.	DEGGRIFTION	וויצט	HATERIAL / NOTE
1	Cabtyre Cable	3	Chloroprene Sheath	50	Motor Bracket	1	Gray Iron Casting
6	Stuffing Box	2	Gray Iron Casting	52A	Upper Bearing	1	6306ZZC3
20	Pump Casing	1	Gray Iron Casting	52B	Lower Bearing	1	6310ZZD2C3
21	Impeller	1	Gray Iron Casting	53	Motor Protector	3	
22	Suction Cover	1	Gray Iron Casting	54	Shaft	1	Stainless Steel 420J2
23	Strainer Stand	1	Malleable Iron Casting	55	Rotor	1	
25	Mechanical Seal	1	H-45	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				
46	Air Release Valve	1	Steel Plate				