

SPECIFICATIONS	Model	50SF23.7	SF-series
			3.7kW, 3-phase
Type of Pump Submersible cast iron high-head pump suitable for pumping wastewater and storm water		Impeller Semi-open multi-vane impeller made of cast iron, dynamically balanced	
Type of Fluid Wastewater and water carrying small solid matters		Solids Passage 50Hz – ϕ7.5mm 60Hz – ϕ7.5mm	
Temperature: 0 to 40°C (High temperature model available on special request)		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.	
Discharge Bore 50mm		Bearings Permanently lubricated, deep-groove, double-shielded C3 ball bearings	
Motor Output 3.7kW		Shaft 420 stainless steel	
Power Supply Three-phase		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.	
Starting Method Direct on Line (Star-Delta available on special request)		Upper Seal Faces: Ceramic + Carbon Lower Seal Faces: SiC + SiC	
Motor Continuous-duty rated, dry-type induction motor		Oil Seal (Lip Seal) Used as a “Dust Seal”, it protects the mechanical seal from abrasive particles.	
Insulation Class: E (available in F on special request) Degree of Protection: IP68		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.	
No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min ⁻¹ (50/60Hz)		Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1350ml	
Power Supply Voltages & Rated Currents 50Hz 60Hz 380V – 8.0A 220V – 13.8A 400V – 7.7A 380V – 7.9A 415V – 7.5A 440V – 6.9A		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.	
Power Cable Sheath: PVC Standard Length: 6m 380 to 600V supply: 1 × 4 × 2.0mm ² , O.D. 11.8mm 200 to 240V supply: 1 × 4 × 3.5mm ² , O.D. 13.9mm			
Dry Weight (excluding cable) Free Standing Type: 59kg Guide Rail Fitting Type: 55kg			
Optional Accessories			
Bend Set (Free Standing Type) • Discharge Bend • JIS 10kg/cm ² Screwed Flange		External Leakage Sensor	
TOS Set (Guide Rail Fitting Type) • Duckfoot Bend • Guide Support • Guide Hook • Lifting Chain 5m (with Shackles) • JIS 10kg/cm ² Screwed Flange			
TSURUMI MANUFACTURING CO., LTD.			

NO. A-12145-1

PUMP PERFORMANCE CURVES

TYPE Waste Water Submersible
Centrifugal PumpMODEL 50SF (A/W) 23.7 -53
T0S50SF (A/W) 23.7 -53

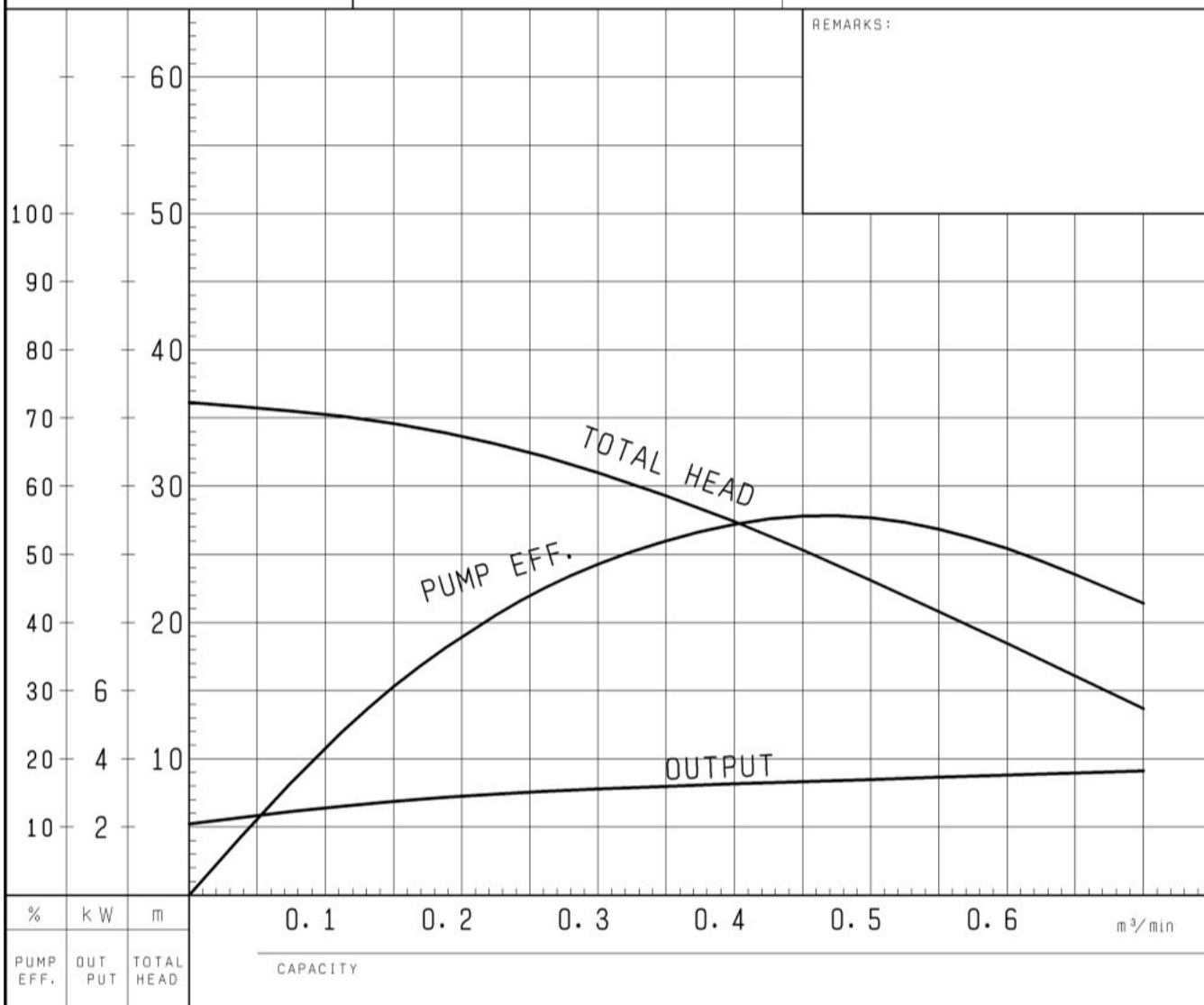
FREQUENCY 50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

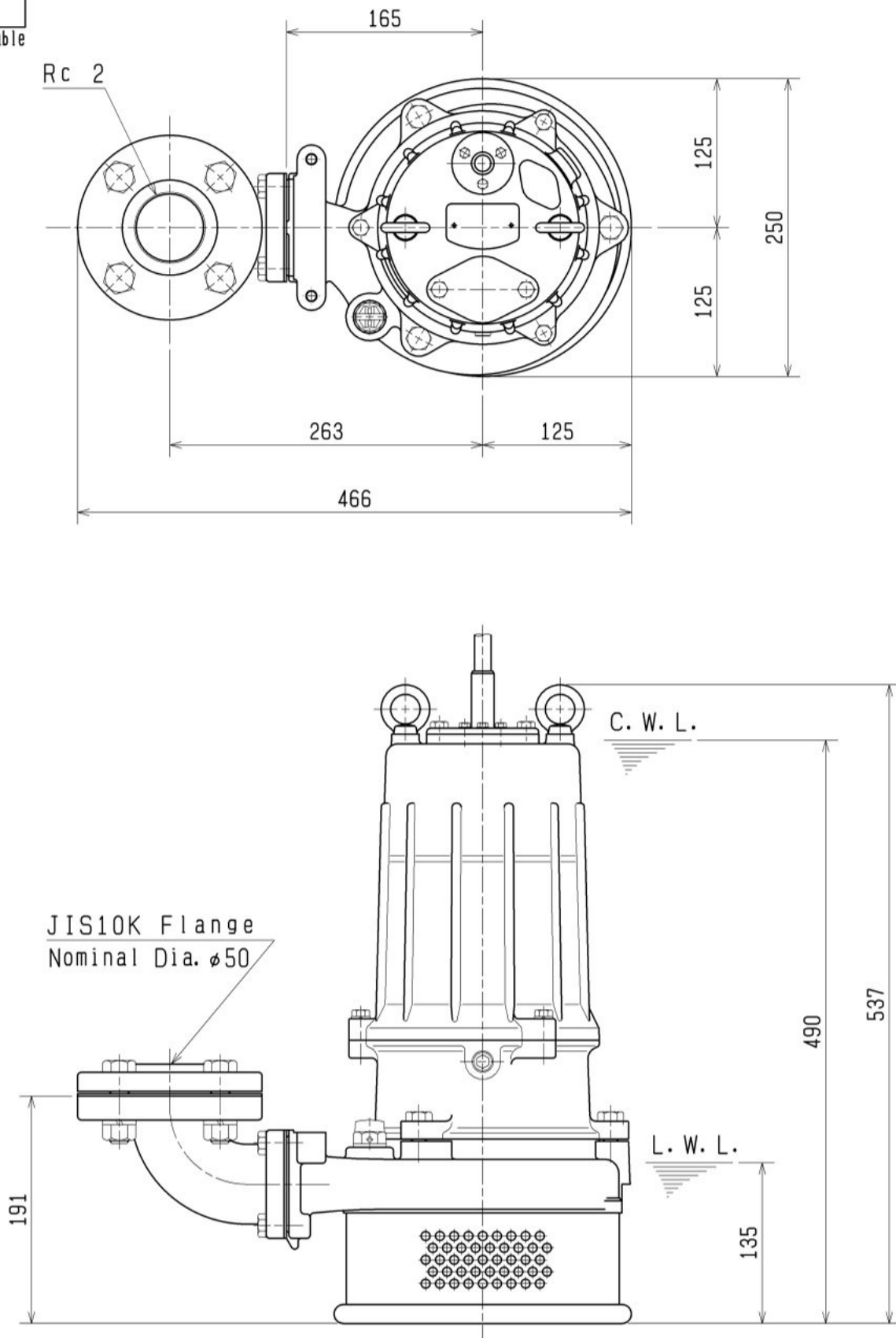
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	31 m	m
CAPACITY	0.3 m ³ /min	m ³ /min
MOTOR OUTPUT	3.7 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / S. S. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	F	



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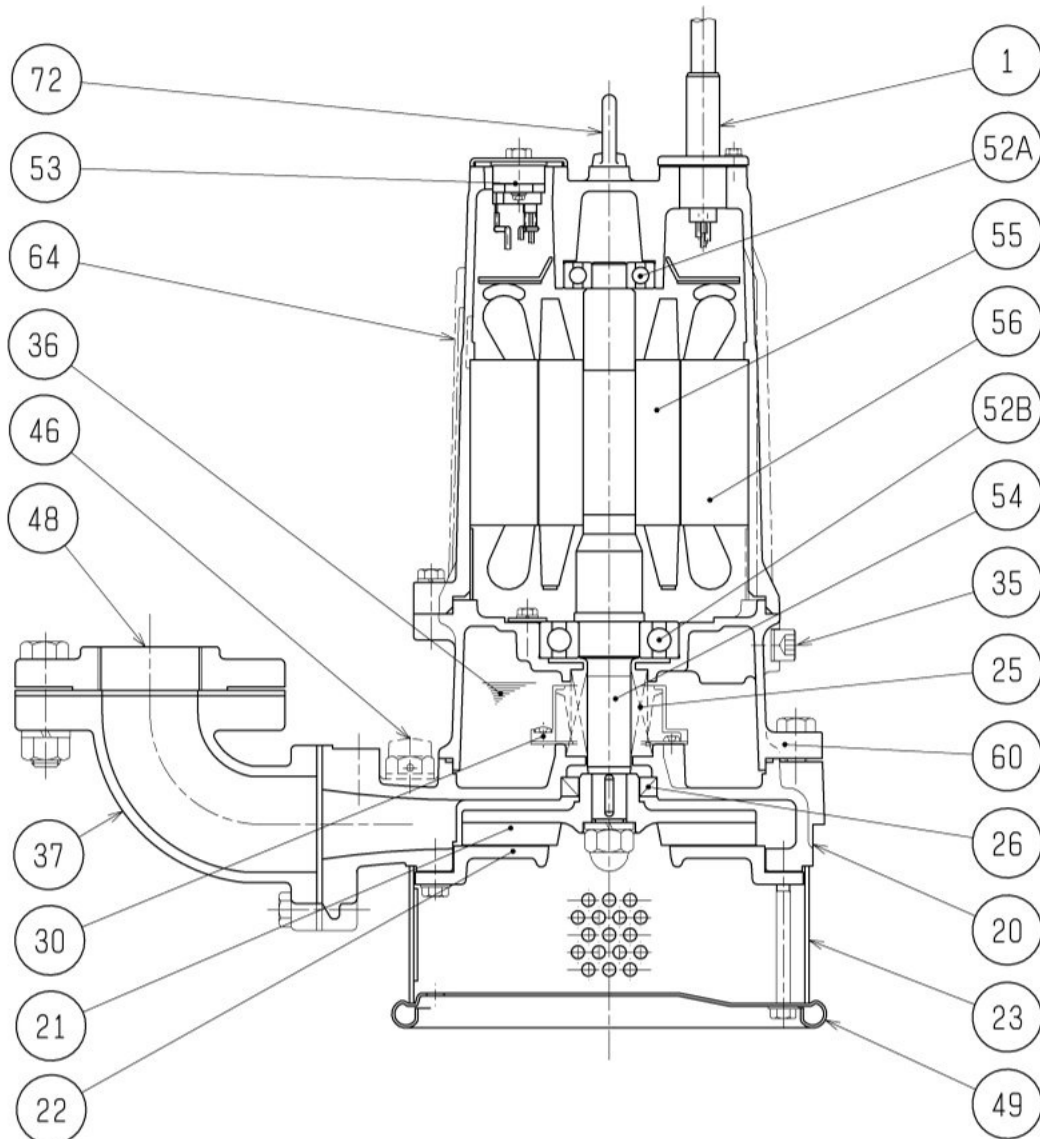
DIMENSION DRAWING		No.	No.
TYPE	Waste Water Submersible Centrifugal Pump	MODEL	50SF23.7 -53/63

Approximate Weight (※)
59kg
※excluding cable



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

SECTIONAL DRAWING		No.	No.
TYPE	Waste Water Submersible Centrifugal Pump	MODEL	50SF23.7 -53/63



REQ. SPECIFICATION

※ the wetted part

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	49	Bottom Plate	1	Steel Sheet
20	Pump Casing	1	Gray Iron Casting	52A	Upper Bearing	1	6304ZZC3
21	Impeller	1	Gray Iron Casting	52B	Lower Bearing	1	6307ZZC3
22	Suction Cover	1	Gray Iron Casting	53	Motor Protector	1	
23	Strainer	1	Steel Sheet	54	Shaft	1	Stainless Steel 420J2(※)
25	Mechanical Seal	1	H-25A	55	Rotor	1	
26	Oil Seal	1	TC355511	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Gray Iron Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Gray Iron Casting
36	Lubricant		Turbine Oil (ISO VG32)	72	Eye Bolt	2	Stainless Steel 304
37	Discharge Bend	1	Gray Iron Casting				
46	Air Release Valve	1	Nylon				
48	Screwed Flange	1	Gray Iron Casting				