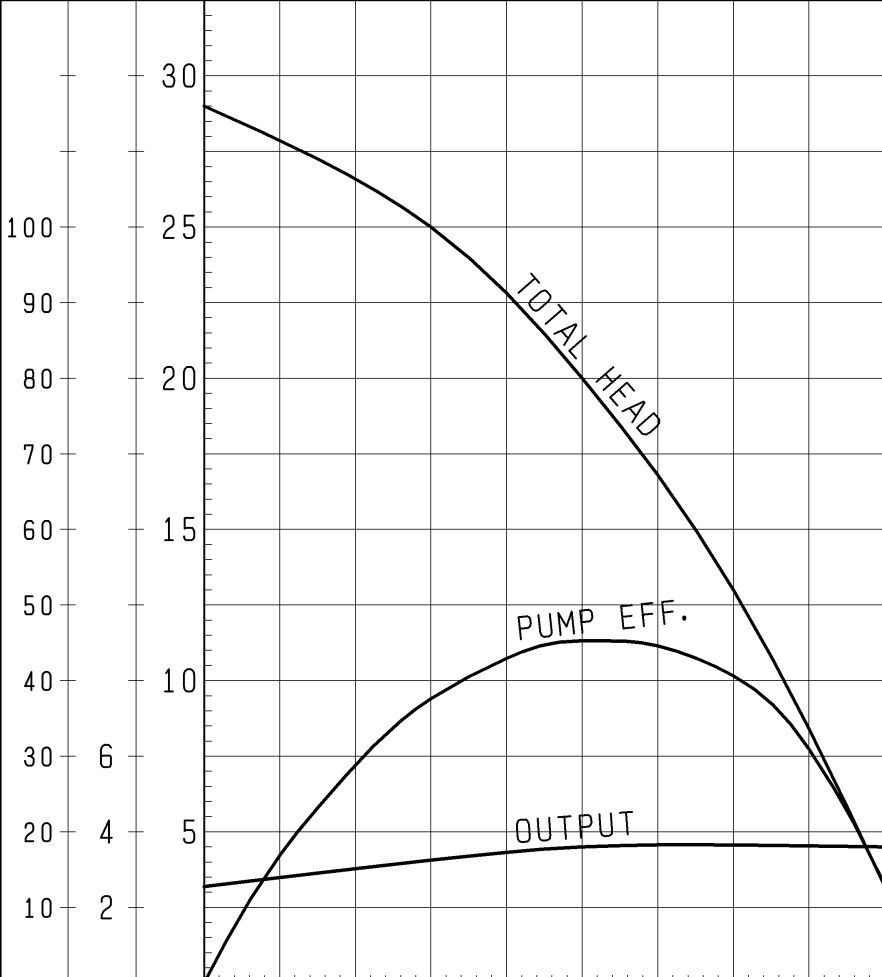
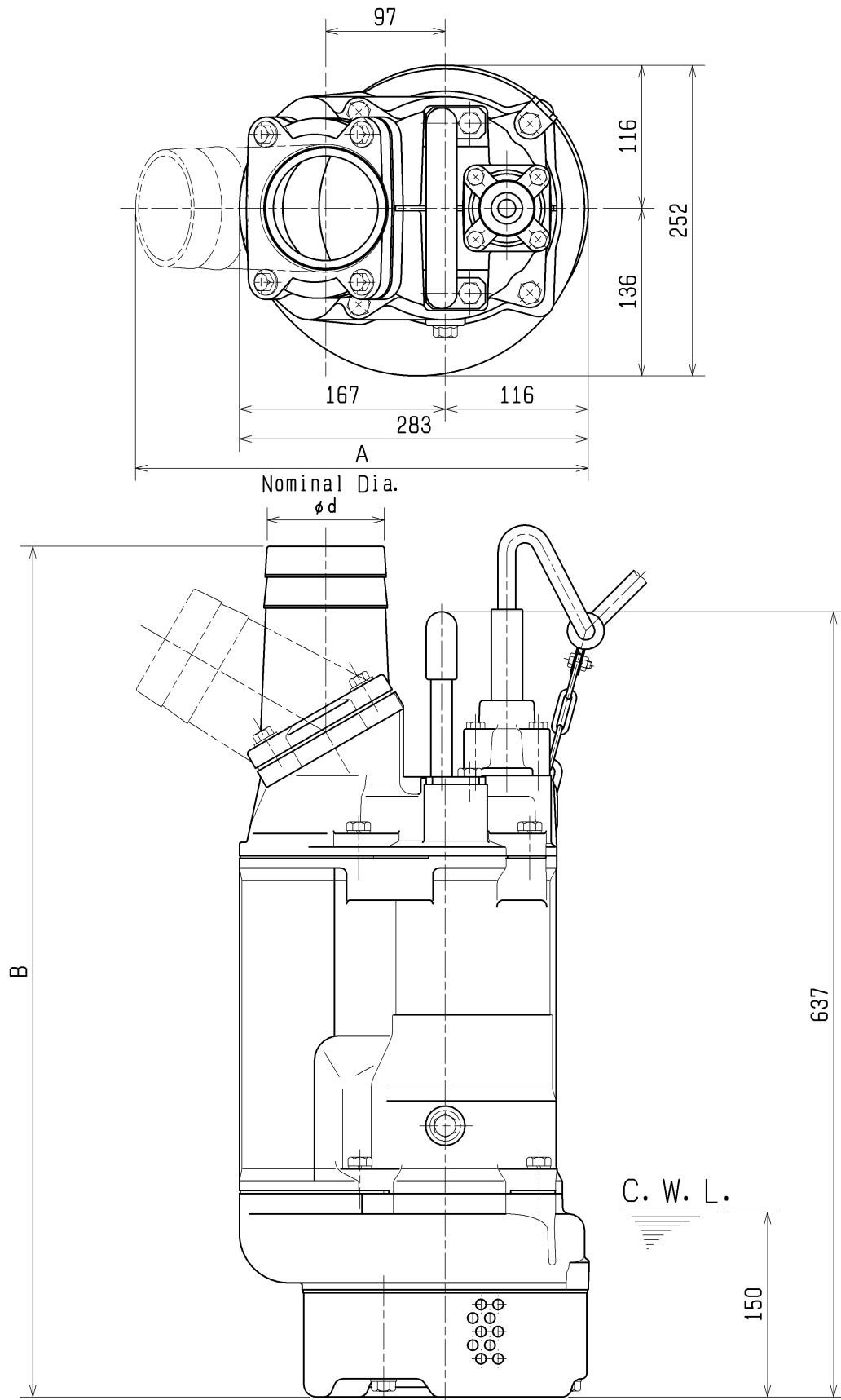


SPECIFICATIONS	Model	KTZ33.7	KTZ-series							
			3.7kW, 3-phase							
<p>Type of Pump Submersible high head drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C (High temperature model available on special request)</p> <p>Discharge Bore & Connection 80mm, Hose Coupling</p> <p>Motor Output 3.7kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table><tr><td>50Hz</td><td>60Hz</td></tr><tr><td>380V – 8.0A</td><td>220V – 13.8A</td></tr><tr><td>400V – 7.7A</td><td>380V – 8.2A</td></tr><tr><td>415V – 7.5A</td><td>440V – 7.2A</td></tr></table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 2.0mm², O.D. 14.4mm</p> <p>Dry Weight (excluding cable) 60kg</p>		50Hz	60Hz	380V – 8.0A	220V – 13.8A	400V – 7.7A	380V – 8.2A	415V – 7.5A	440V – 7.2A	<p>Impeller Semi-open Impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ8.5mm 60Hz – ϕ8.5mm</p> <p>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.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>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.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”, it protects the mechanical seal from abrasive particles.</p> <p>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.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1250ml</p> <p>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.</p>
50Hz	60Hz									
380V – 8.0A	220V – 13.8A									
400V – 7.7A	380V – 8.2A									
415V – 7.5A	440V – 7.2A									
TSURUMI MANUFACTURING CO., LTD.										

		NO.		A-21091-1	
PUMP PERFORMANCE CURVES					
TYPE		SUBMERSIBLE GENERAL DEWATERING PUMP		MODEL	
		KTZ33.7 -53		FREQUENCY	
				50 Hz	
CUSTOMER'S NAME					
EQUIPMENT TITLE					
NO.					
		STANDARD SPECIFICATIONS		REQUIRED SPECIFICATIONS	
DISCHARGE BORE		80 mm		mm	
TOTAL HEAD		MAX. 29 m		m	
CAPACITY		MAX. 0.9 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			
				REMARKS:	
 <p>The graph plots three performance metrics against capacity (m³/min). The 'TOTAL HEAD' curve starts at approximately 29m at 0 capacity and decreases to about 12m at 0.9 m³/min. The 'PUMP EFF.' curve starts at 0, peaks at approximately 45% efficiency around 0.5 m³/min, and then declines. The 'OUTPUT' curve starts at about 1.2 kW at 0 capacity and rises to a plateau of about 1.8 kW between 0.6 and 0.9 m³/min. The y-axis has three scales: meters (0-30), kW (0-100), and % efficiency (0-100). The x-axis ranges from 0 to 1.2 m³/min.</p>					
%	kW	m	CAPACITY		
PUMP EFF.	MOTOR OUTPUT	TOTAL HEAD	m ³ /min		
			TSURUMI MFG. CO., LTD.		

DIMENSION DRAWING		No.	No.
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP	MODEL	KTZ23.7 -53/63, KTZ33.7 -53/63 KTZ43.7 -53/63
			A-21104-1

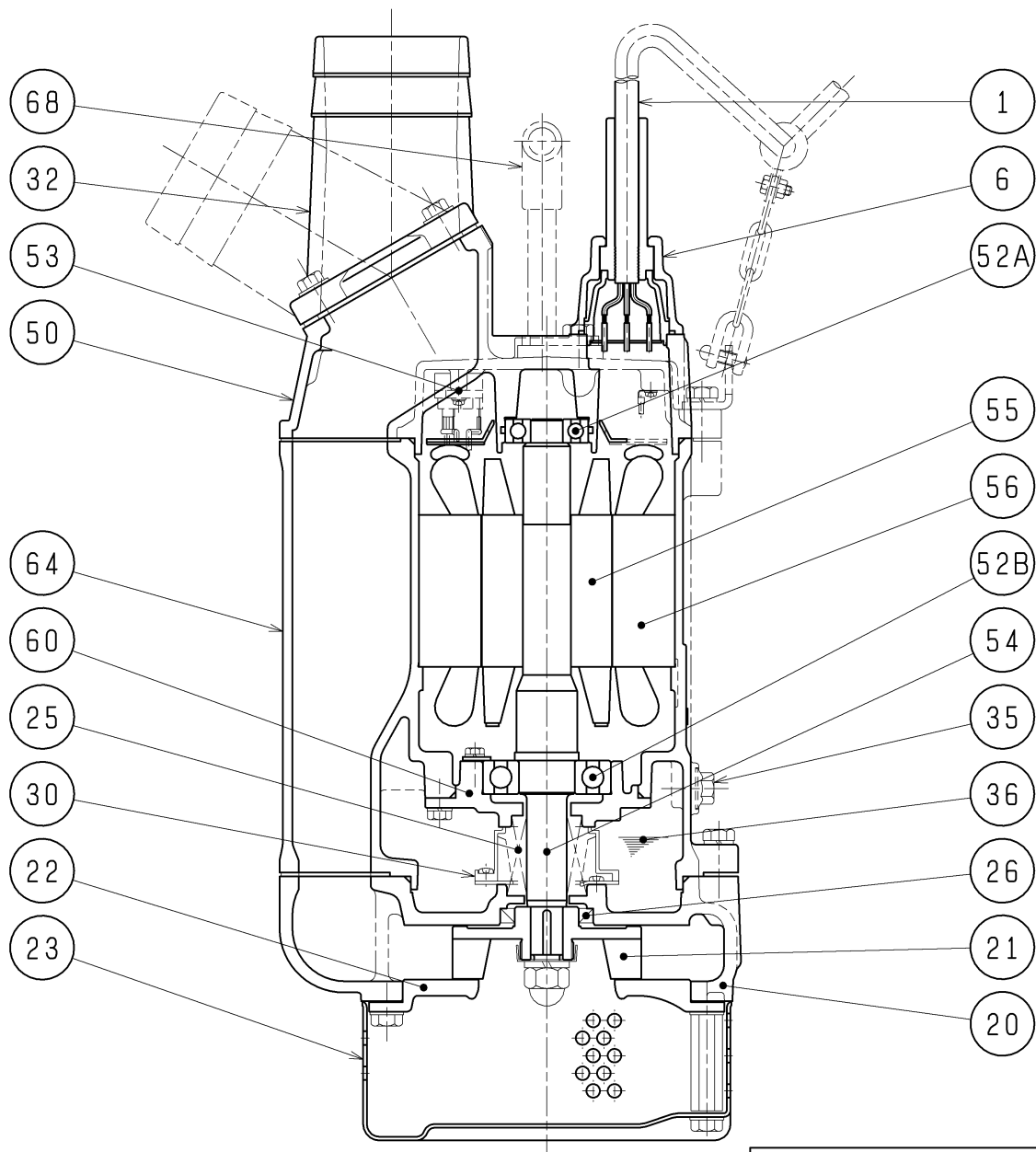


MODEL	d	A	B	Approximate Weight (※)
KTZ23.7-53/63	50	342	675	60kg
KTZ33.7-53/63	80	347	675	60kg
KTZ43.7-53/63	100	367	690	60kg

※excluding cable

C. W. L. :Continuous running Water Level

SECTIONAL DRAWING		No.	No.
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP	MODEL	KTZ23.7 -53/63, KTZ33.7 -53/63 KTZ43.7 -53/63



REQ. SPECIFICATION

※ the wetted part

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	52A	Upper Bearing	1	6304ZZC3
6	Stuffing Box	1	Gray Iron Casting	52B	Lower Bearing	1	6307ZZC3
20	Pump Casing	1	Gray Iron Casting	53	Motor Protector	1	
21	Impeller	1	Chromium Iron Casting	54	Shaft	1	Stainless Steel 420J2(※)
22	Suction Cover	1	Ductile Iron Casting	55	Rotor	1	
23	Strainer Stand	1	Steel Sheet	56	Stator	1	
25	Mechanical Seal	1	HT-25T	60	Bearing Housing	1	Gray Iron Casting
26	Oil Seal	1	TC40588	64	Motor Frame	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	68	Handle	1	Carbon Steel Pipe & Structure Steel
32	Hose Coupling	1	Aluminium Die Casting				
35	Oil Plug	1	Stainless Steel 304				
36	Lubricant		Turbine Oil (ISO VG32)				
50	Motor Bracket	1	Gray Iron Casting				