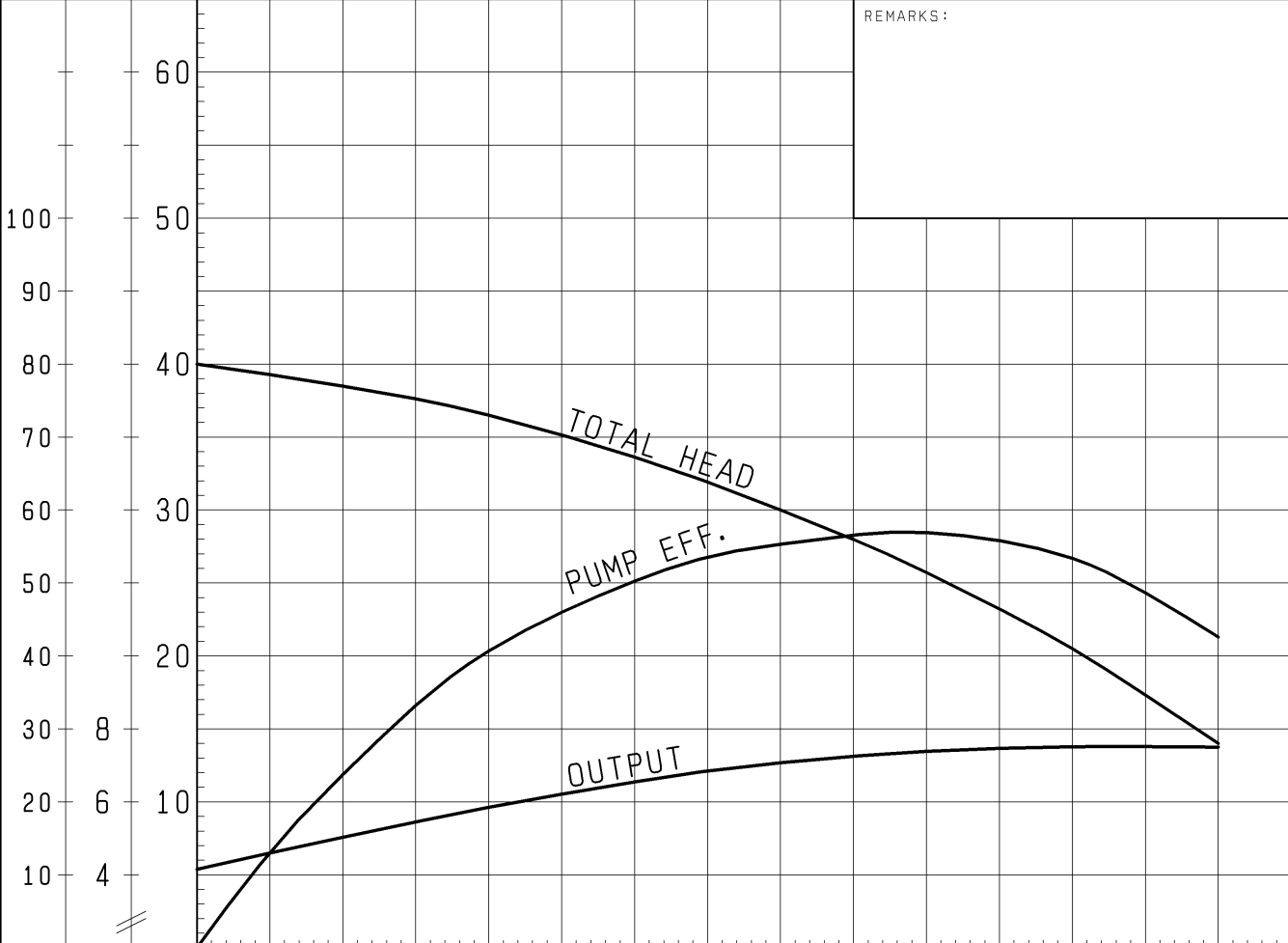
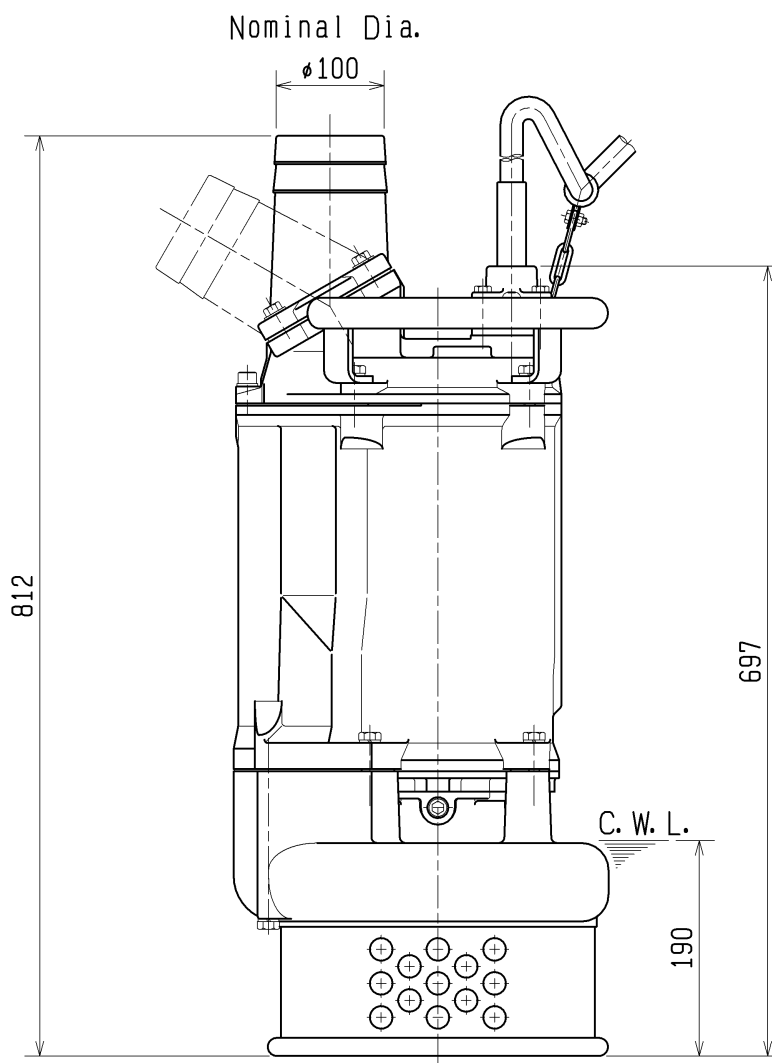
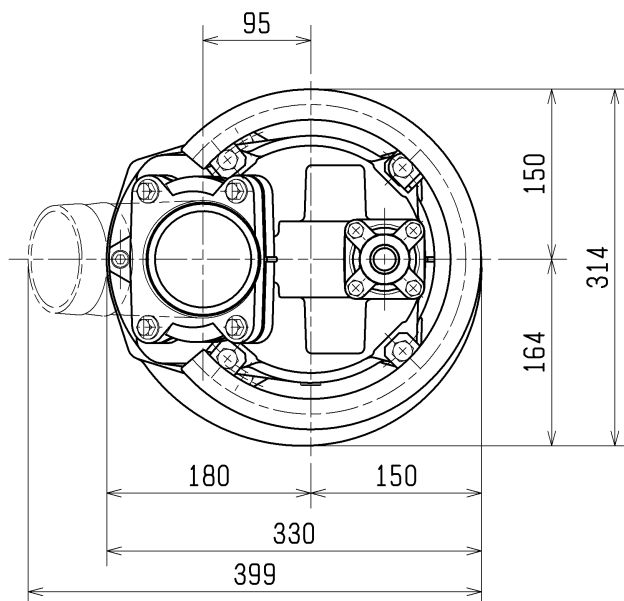


SPECIFICATIONS	Model	KTZ47.5	KTZ-series
			7.5kW, 3-phase
Type of Pump Submersible high head drainage pump for construction and foundation works, floodwater drainage, etc.		Impeller Semi-open Impeller made of high-chromium cast iron	
Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water		Solids Passage 50Hz – ϕ12mm 60Hz – ϕ12mm	
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 & Connection 100mm, Hose Coupling		Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings	
Motor Output 7.5kW		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 Face: SiC + SiC Lower Seal Face: SiC + SiC	
Motor Continuous-duty rated, dry-type induction motor		Pressure Relief Port Protects the mechanical seal from over rated limits, and also protects the seal faces from abrasive particles by drawing particles away.	
Insulation Class: F 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), 760ml	
Power Supply Voltages & Rated Currents 50Hz 60Hz 380V – 15.7A 220V – 28.0A 400V – 15.1A 380V – 15.5A 415V – 14.9A 440V – 13.6A		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: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 5.5mm ² , O.D. 19.8mm			
Dry Weight (excluding cable) 101kg			
TSURUMI MANUFACTURING CO., LTD.			

				NO.	A-21099-1T																																				
PUMP PERFORMANCE CURVES																																									
TYPE		SUBMERSIBLE GENERAL DEWATERING PUMP		MODEL	KTZ47.5 -53																																				
				FREQUENCY 50 Hz																																					
CUSTOMER'S NAME																																									
EQUIPMENT TITLE																																									
NO.																																									
		STANDARD SPECIFICATIONS		REQUIRED SPECIFICATIONS																																					
DISCHARGE BORE		100 mm		mm																																					
TOTAL HEAD		MAX. 40 m		m																																					
CAPACITY		MAX. 1.4 m ³ /min		m ³ /min																																					
MOTOR OUTPUT		7.5 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:																																					
 The graph displays three performance curves for the pump. The x-axis represents Capacity in m³/min, ranging from 0 to 1.4. The left y-axis represents Head in meters (m) and Efficiency in percent (%), ranging from 0 to 100. The right y-axis represents Motor Output in kW, ranging from 0 to 10. The 'TOTAL HEAD' curve starts at 40 m at 0 m³/min and decreases to approximately 22 m at 1.4 m³/min. The 'PUMP EFF.' curve starts at 0% at 0 m³/min, peaks at approximately 58% at 1.0 m³/min, and then decreases. The 'OUTPUT' curve starts at 0 kW at 0 m³/min and increases to approximately 7.5 kW at 1.4 m³/min. <table border="1"><thead><tr><th>CAPACITY (m³/min)</th><th>TOTAL HEAD (m)</th><th>PUMP EFF. (%)</th><th>OUTPUT (kW)</th></tr></thead><tbody><tr><td>0.0</td><td>40</td><td>0</td><td>0</td></tr><tr><td>0.2</td><td>38</td><td>15</td><td>2.5</td></tr><tr><td>0.4</td><td>35</td><td>35</td><td>4.5</td></tr><tr><td>0.6</td><td>30</td><td>50</td><td>6.0</td></tr><tr><td>0.8</td><td>25</td><td>55</td><td>7.0</td></tr><tr><td>1.0</td><td>20</td><td>58</td><td>7.5</td></tr><tr><td>1.2</td><td>15</td><td>55</td><td>7.5</td></tr><tr><td>1.4</td><td>22</td><td>50</td><td>7.5</td></tr></tbody></table>				CAPACITY (m ³ /min)	TOTAL HEAD (m)	PUMP EFF. (%)	OUTPUT (kW)	0.0	40	0	0	0.2	38	15	2.5	0.4	35	35	4.5	0.6	30	50	6.0	0.8	25	55	7.0	1.0	20	58	7.5	1.2	15	55	7.5	1.4	22	50	7.5		
CAPACITY (m ³ /min)	TOTAL HEAD (m)	PUMP EFF. (%)	OUTPUT (kW)																																						
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%		kW		m																																					
PUMP EFF.		MOTOR OUTPUT		TOTAL HEAD																																					
				CAPACITY																																					
TSURUMI MFG. CO., LTD.																																									

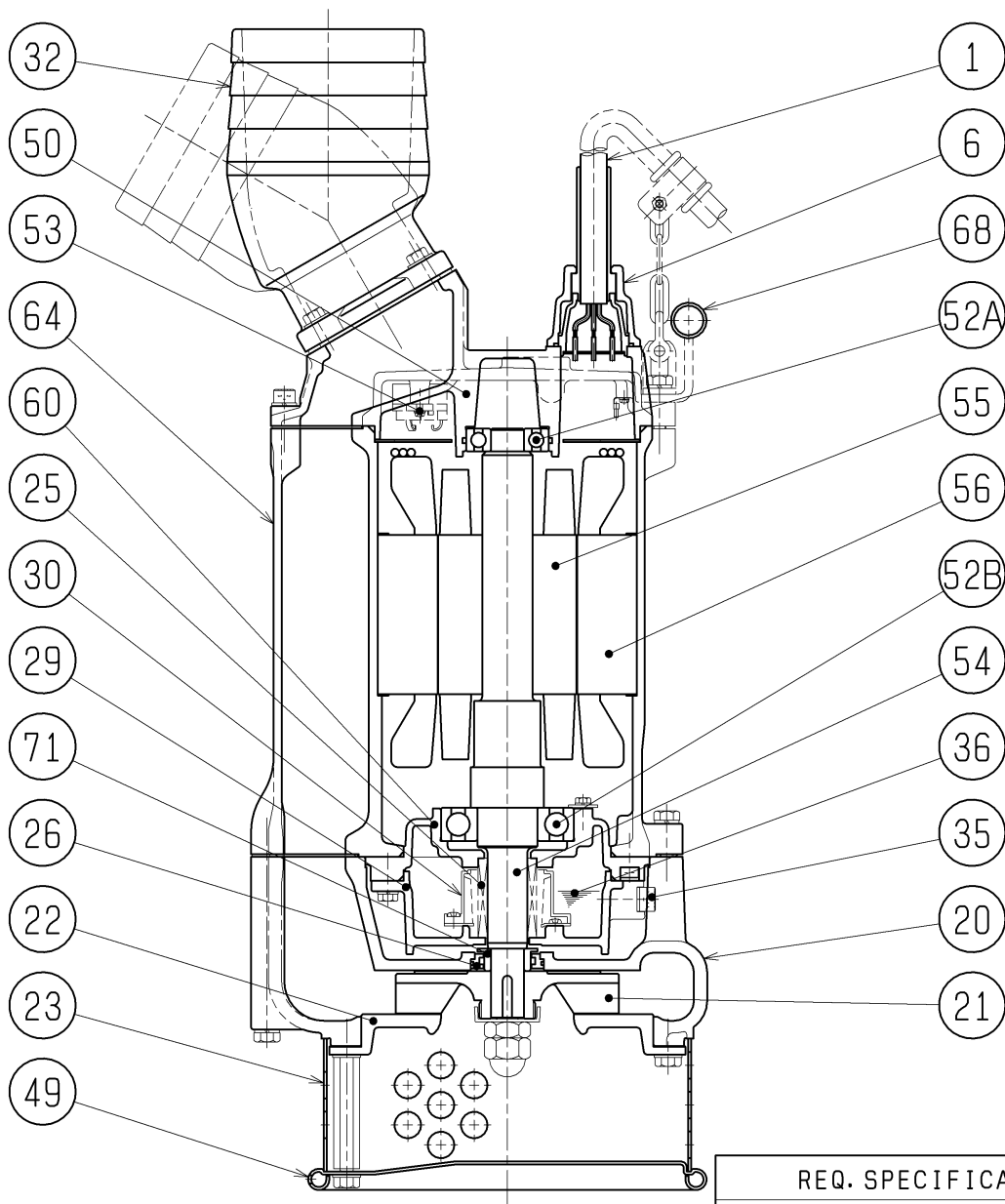
DIMENSION DRAWING		No.		No.	A-21106-1T
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP	MODEL	KTZ47.5 -53/63		

Approximate Weight (※)
101kg



C. W. L. :Continuous running Water Level

SECTIONAL DRAWING		No.		No.	A-21110-1T
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP	MODEL	KTZ47.5	-53/63	
			KTZ67.5	-53/63	



※1

KTZ47.5	Aluminium Die Casting
KTZ67.5	Aluminium Alloy Casting

REQ. SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	50	Motor Bracket	1	Gray Iron Casting
6	Stuffing Box	1	Gray Iron Casting	52A	Upper Bearing	1	6305ZZC3
20	Pump Casing	1	Gray Iron Casting	52B	Lower Bearing	1	6309ZZC3
21	Impeller	1	Chromium Iron Casting	53	Motor Protector	1	
22	Suction Cover	1	Ductile Iron Casting	54	Shaft	1	Stainless Steel 420J2
23	Strainer	1	Steel Sheet	55	Rotor	1	
25	Mechanical Seal	1	H-30T	56	Stator	1	
26	Labyrinth Ring	1	Stainless Steel 304	60	Bearing Housing	1	Gray Iron Casting
29	Oil Casing	1	Gray Iron Casting	64	Motor Frame	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	68	Handle	1	Carbon Steel Pipe & Structure Steel
32	Hose Coupling	1	※1	71	Shaft Sleeve	1	Stainless Steel 403
35	Oil Plug	1	Stainless Steel 304				
36	Lubricant		Turbine Oil (ISO VG32)				
49	Bottom Plate	1	Steel Sheet				