# 🧭 Tsurumi Pump

## SPECIFICATIONS Model

# KTZ47.5

Drainage Pumps

### KTZ-series 7.5kW, 3-phase

#### Type of Pump

Submersible high head drainage pump for construction and foundation works, floodwater drainage, etc.

**Type of Fluid** Stormwater, groundwater, wash water, and sand-carrying water

Temperature: 0 to 40°C (High temperature model available on special request)

Discharge Bore & Connection 100mm, Hose Coupling

Motor Output 7.5kW

Power Supply Three-phase

Starting Method Direct on Line (Star-Delta available on special request)

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min<sup>-1</sup> (50/60Hz)

 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

#### **Power Cable**

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 5.5mm<sup>2</sup>, O.D. 19.8mm

Dry Weight (excluding cable) 101kg

#### Impeller

Semi-open Impeller made of high-chromium cast iron

Solids Passage 50Hz – ¢12mm 60Hz – ¢12mm

#### 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.

#### Bearing

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 Face: SiC + SiC Lower Seal Face: SiC + SiC

#### **Pressure Relief Port**

Protects the mechanical seal from over rated limits, and also protects the seal faces from abrasive particles by drawing particles away.

#### **OIL LIFTER** (Patented)

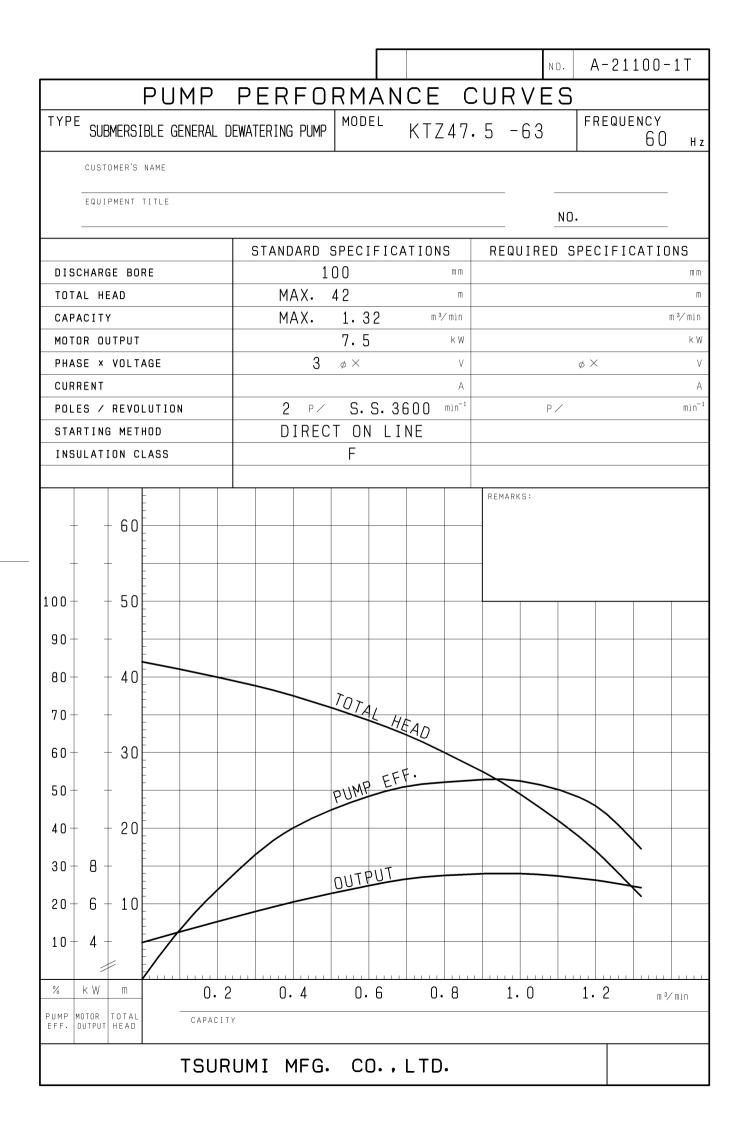
Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

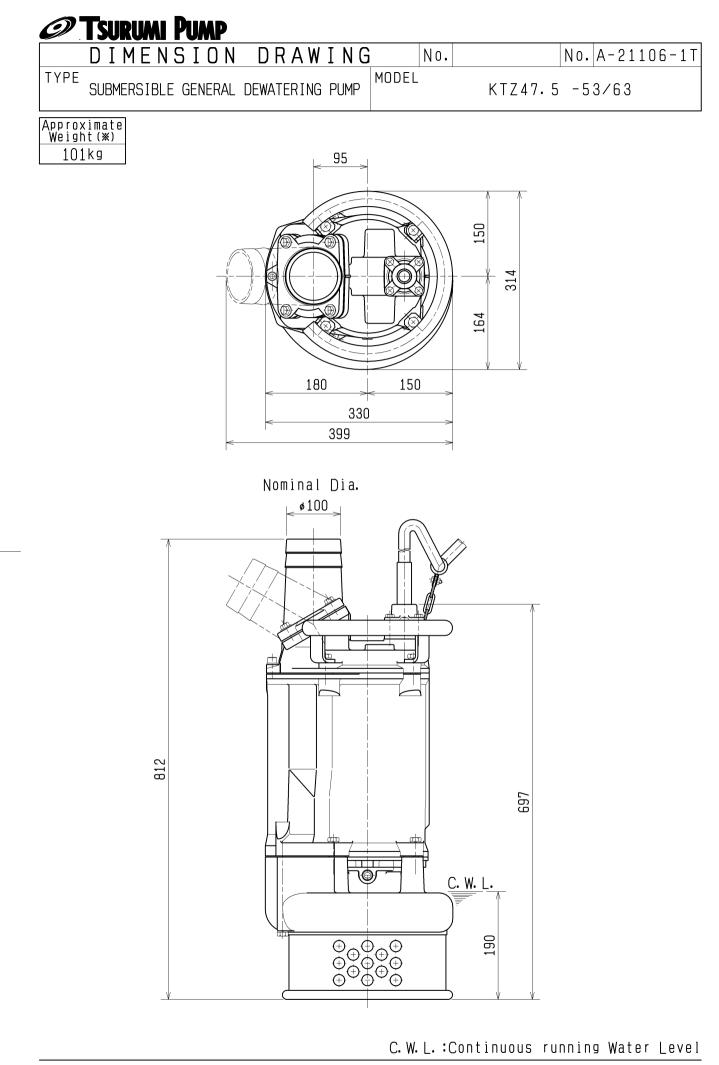
Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 760ml

#### **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.

TSURUMI MANUFACTURING CO., LTD.





unit:mm

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SECTIO	NAL DRAWIN	IG No.	No. A-21110-1
SUBMERSIBLE	GENERAL DEWATERING PUM	IP MODEL	KTZ47.5 -53/63 KTZ67.5 -53/63
(32)			(1)
(50)			(6)
53			68
64			52A
(60)			(55)
(25)			(56)
(30)			(52B)
(29)			(54)
(71)			(36)
(26)			(35)
(22)			(20)
(49)		$\overline{\mathcal{O}}$	Γ
*1	G	Ŭ	REQ. SPECIFICATION
KTZ47.5 Aluminium D			
KTZ67.5 Aluminium A No. DESCRIPTION	QTY MATERIAL / NOTE	E No. DESCRIP	I TION QTY MATERIAL / NOTE
1 Cabtyre Cable	1 Chloroprene Sheath	50 Motor Brack	
6 Stuffing Box	1 Gray Iron Casting	52A Upper Bear	
20 Pump Casing	1 Gray Iron Casting	52B Lower Bear	
21 Impeller	1 Chromium Iron Castin		
22 Suction Cover 23 Strainer	1 Ductile Iron Casting	54 Shaft 55 Rotor	1 Stainless Steel 420J2
23 Strainer 25 Mechanical Seal	1 Steel Sheet 1 H-30T	56 Stator	1
26 Labyrinth Ring	1 Stainless Steel 304	60 Bearing Hou	
29 Oil Casing	1 Gray Iron Casting	64 Motor Frame	
30 Oil Lifter	1 Plastic	68 Handle	1 Carbon Steel Pipe & Structure Ste
32 Hose Coupling	1 *1	71 Shaft Sleev	ve 1 Stainless Steel 403
35 Oil Plug	1 Stainless Steel 304		
36 Lubricant	Turbine Oil (ISO VG3)	2)	
49 Bottom Plate	1 Steel Sheet		

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