**SPECIFICATIONS** 

Model

# **KTZE33.7**

**KTZE-series** 

3.7kW, 3-phase

# Type of Pump

Submersible automatic 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

# **Discharge Bore & Connection**

80mm, Hose Coupling

# **Motor Output**

3.7kW

### **Power Supply**

Three-phase

# **Starting Method**

Direct on Line

#### 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 - 8.0A 220V - 13.8A 400V - 7.7A 380V - 8.2A 415V - 7.5A 440V - 7.2A

## **Power Cable**

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

1 x 4 x 2.0mm<sup>2</sup>, O.D. 14.4mm

# Dry Weight (excluding cable)

69kg

#### Impeller

Semi-open Impeller made of high-chromium cast iron

Solids Passage 50Hz –  $\phi$ 8.5mm 60Hz –  $\phi$ 8.5mm

# **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

## 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), 1250ml

## **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.

# Optional Accessory

**Extension Electrode** 

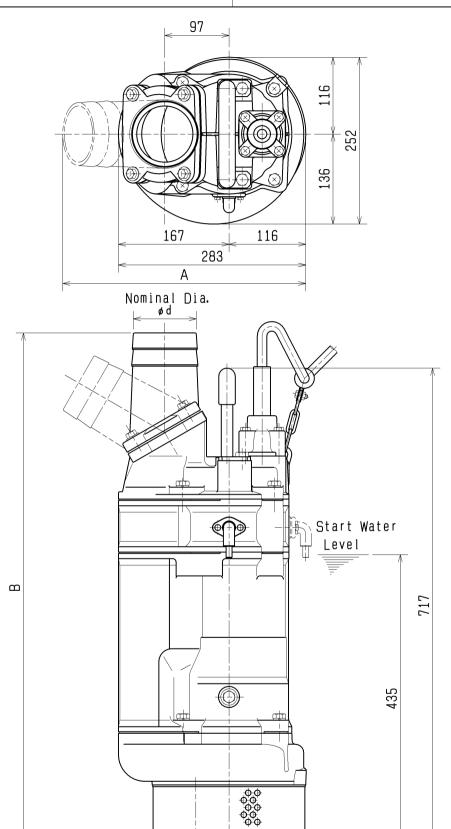
				N	o. A-21	1041-1
PUMP	PERFO	RMAN	ICE C	URVE	S	
TYPE SUBMERSIBLE GENERAL D	DEWATERING PUMP	MODEL	KTZE33	.7 -51	FREQU	ENCY 50 Hz
CUSTOMER'S NAME					·	
EQUIPMENT TITLE						
					NO.	
	STANDARD	SPECIFIC	ATIONS	REQUIRED	SPECIFI	CATIONS
DISCHARGE BORE		80	m m			m m
TOTAL HEAD  CAPACITY	MAX.	29 0.9	m m 3/min			m m <sup>3</sup> / min
MOTOR OUTPUT	MAX	3.7	7    1   			
PHASE × VOLTAGE	3	φ×	V		φ ×	V
CURRENT			А			А
POLES / REVOLUTION	2 P/	S. S. 3	000 min <sup>-1</sup>	Р	/	min <sup>-1</sup>
STARTING METHOD	DIREC	T ON LI	NE			
INSULATION CLASS		F				
-				REMARKS:		
30 - 30						
				+		
100+ + 25						
90+ +	C. A.					
80 + + 20	<u> </u>	K. P.				
-		\Z				
70++						
60+ + 15						
50+ +		\ 				
	PUM	P EFF.				
40+ + 10						
30 + 6 +						
	OUT	DUT				
20 + 4 + 5	OUT	PUI	<del></del>	7		
10 - 2 -						
% kw m 0.2	2 0.4	0.6	0.8	1.0	1. 2	m³/min
PUMP MOTOR TOTAL CAPACIT					<u> </u>	∆ IIIII
EFF. OUTPUT HEAD						
I TSUR	UMI MFG.	co	LTD.			



DIMENSION DRAWING No. No. A-21046-1

SUBMERSIBLE GENERAL DEWATERING PUMP

MODEL KTZE23.7 -51/61, KTZE33.7 -51/61 KTZE43.7 -51/61



\*excluding cable

MODEL	q	А	В	Approximate Weight(*)	
KTZE23.7-51/61	50	342	755	69kg	
KTZE33.7-51/61	80	347	755	69kg	
KTZE43.7-51/61	100	367	770	69kg	

TSURUMI PUMP SECTIONAL DRAWING No. No. A-21048-2 MODEL KTZE23.7 -51/61.KTZE33.7 -51/61 TYPE SUBMERSIBLE GENERAL DEWATERING PUMP KTZE43.7 -51/61 1 68 6 32 (114)51 (52A 53 90 50 . 55 64 56 35 60 54 25 36 26 30 20 21 REQ. SPECIFICATION 23 \* the wetted part Q' TY MATERIAL / NOTE No. DESCRIPTION Q' TY No. DESCRIPTION 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	H-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	90	Level Sensor(Electrode)	1		
35	Oil Plug	1	Stainless Steel 304	114	Relay Unit	1		
36	Lubricant		Turbine Oil (ISO VG32)					
50	Motor Bracket	1	Gray Iron Casting					
51	Head Cover	1	Gray Iron Casting					