SPECIFICATIONS	Model	KTZE32.2	KTZE-series 2.2kW, 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
2.2kW

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^{-1} (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz	60Hz
380V – 5.1A	220V – 9.0A
400V – 5.0A	380V – 5.1A
415V – 5.0A	440V – 4.6A

Power Cable
Sheath: PVC
Standard Length: 8m
200 to 600V supply:
1 x 4 x 1.25mm^2, O.D. 11.1mm

Dry Weight (excluding cable)
40kg

Impeller
Semi-open Impeller made of high-chromium cast iron

Solids Passage
50Hz – ϕ8.5mm
60Hz – ϕ8.5mm

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.

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), 740ml

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

NO. A-21037-1

PUMP PERFORMANCE CURVES

TYPE	MODEL	FREQUENCY
SUBMERSIBLE GENERAL DEWATERING PUMP	KTZE32.2 -51	50 Hz

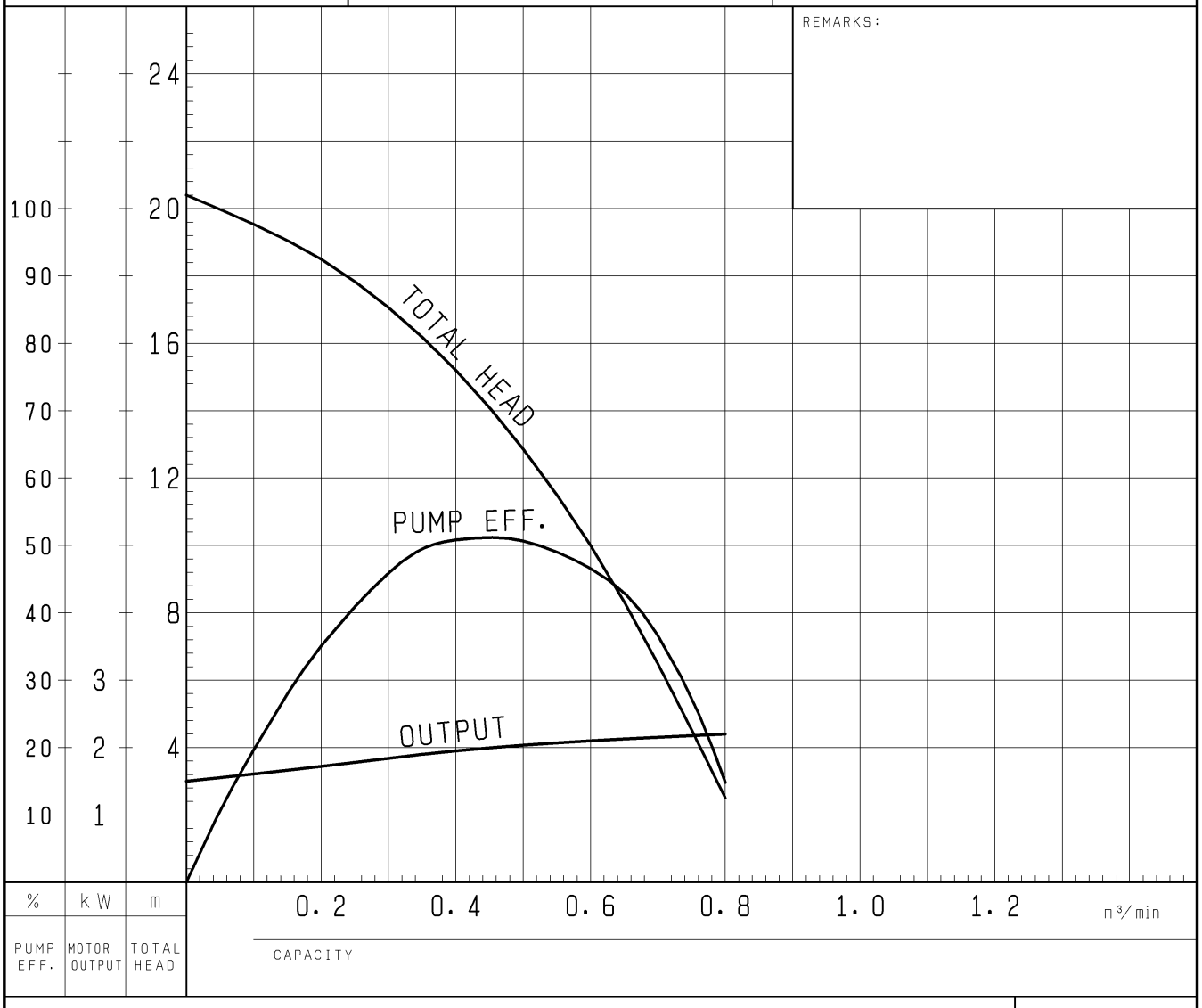
CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	MAX. 20.4 m	m
CAPACITY	MAX. 0.8 m³/min	m³/min
MOTOR OUTPUT	2.2 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	

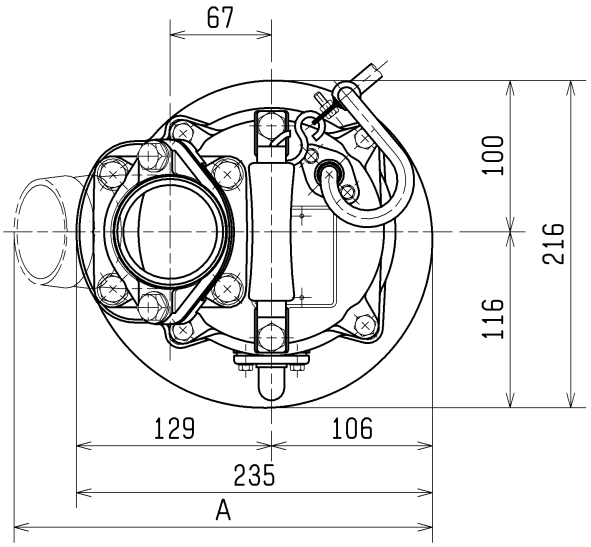
REMARKS:

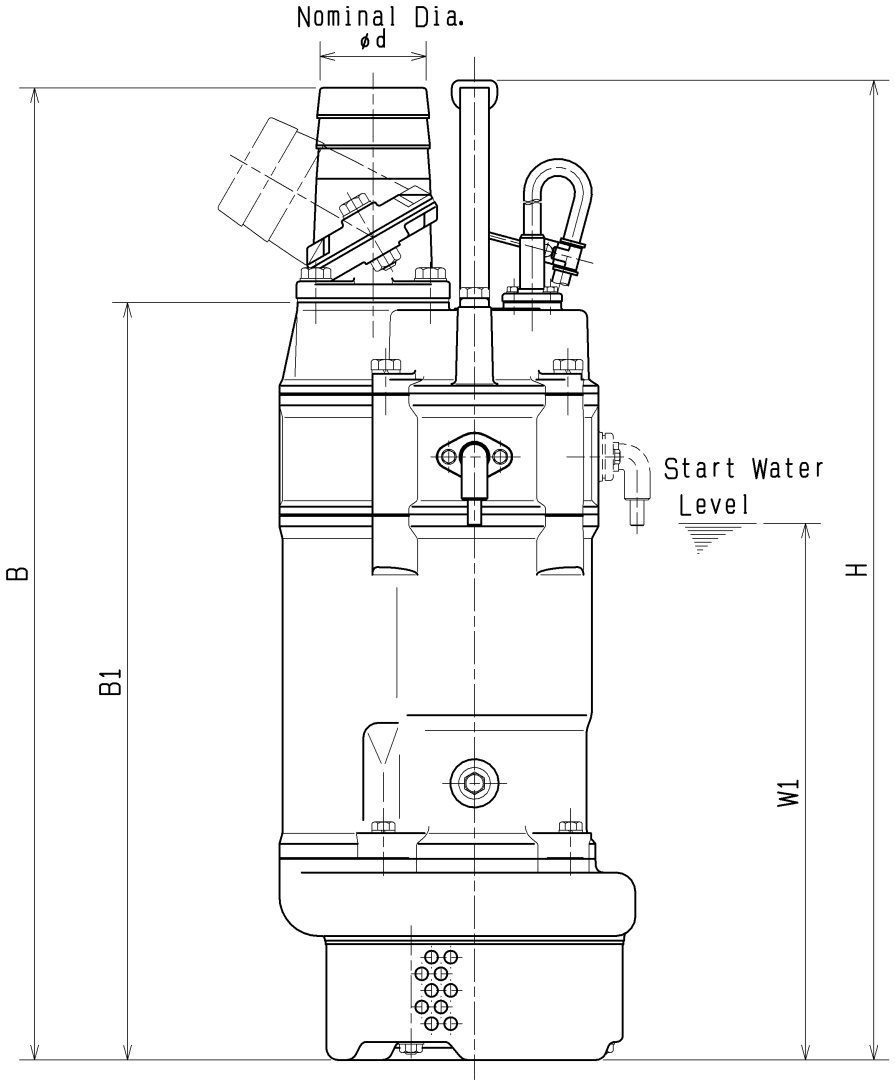


TSURUMI MFG. CO., LTD.

TSURUMI PUMP

DIMENSION DRAWING	No.		No.	A-21045-1
TYPE SUBMERSIBLE GENERAL DEWATERING PUMP	MODEL	KTZE21.5 -51/61, KTZE22.2 -51/61 KTZE31.5 -51/61, KTZE32.2 -51/61		



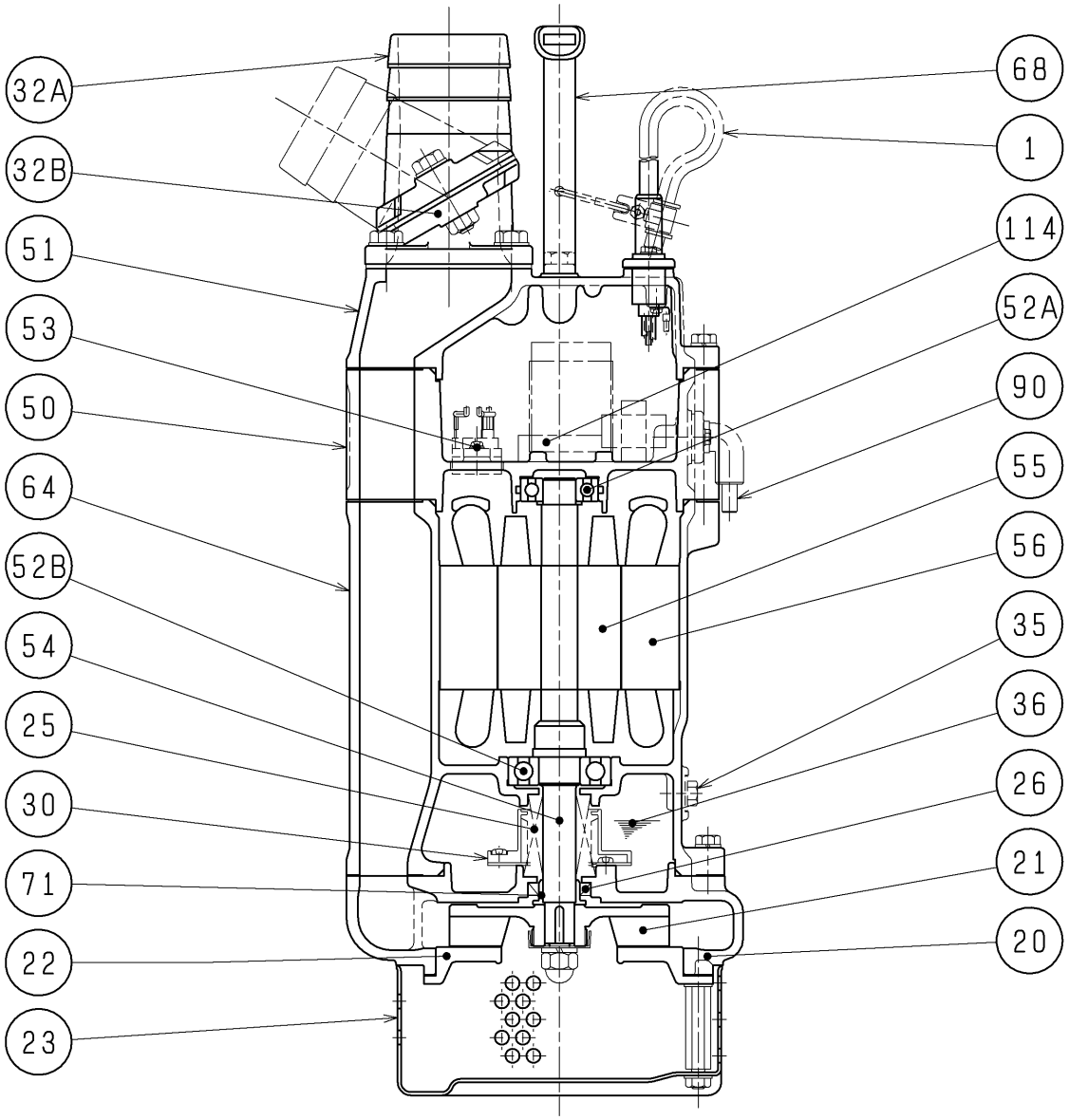


※excluding cable

MODEL	d	A	B	B1	H	W1	Approximate Weight(※)
KTZE21.5-51/61	50	270	623	481	628	345	39kg
KTZE31.5-51/61	80	276	623	481	628	345	38kg
KTZE22.2-51/61	50	270	643	501	648	355	41kg
KTZE32.2-51/61	80	276	643	501	648	355	40kg

TSURUMI PUMP

SECTIONAL DRAWING	No.		No.	A-21047-2
TYPE SUBMERSIBLE GENERAL DEWATERING PUMP		MODEL KTZE21.5 -51/61, KTZE22.2 -51/61 KTZE31.5 -51/61, KTZE32.2 -51/61		



REQ. SPECIFICATION

※ the wetted part

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	52A	Upper Bearing	1	6204ZZC3
20	Pump Casing	1	Gray Iron Casting	52B	Lower Bearing	1	6305ZZC3
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 Stand	1	Steel Sheet	55	Rotor	1	
25	Mechanical Seal	1	H-20T	56	Stator	1	
26	Oil Seal	1	TC25388	64	Motor Frame	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	68	Handle	1	Steel Sheet & Nitrile Butadiene Rubber
32A	Hose Coupling	1	Aluminium Die Casting	71	Shaft Sleeve	1	Stainless Steel 304
32B	Hose Coupling Attachment	1	Aluminium Die Casting	90	Level Sensor(Electrode)	1	Stainless Steel 304
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				

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