

SPECIFICATIONS

Model

KTZE22.2

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

50mm, 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 1.25mm², O.D. 11.1mm

Dry Weight (excluding cable)

41kg

Impeller

Semi-open Impeller made of high-chromium cast iron

Solids Passage 50Hz – ϕ 8.5mm 60Hz – ϕ 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), 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

| | | | | <u> </u> | | | | |
|------------------------------|-----------------|------------|--------------|-------------------------|---------|-------------------|--|--|
| | | | | N | o. A-21 | 1035-1 | | |
| PUMP | PERFO | RMAN | ICE C | CURVE | S | | | |
| TYPE SUBMERSIBLE GENERAL D | DEWATERING PUMP | MODEL | KTZE22 | 2.2 -51 | FREQU | ГО | | |
| CUSTOMER'S NAME | | | | | | 5U Hz | | |
| | | | | | | | | |
| EQUIPMENT TITLE | | | | | NO. | | | |
| | STANDARD | SPECIFIC | ATIONS | REQUIRED SPECIFICATIONS | | | | |
| DISCHARGE BORE | | 50 | mm | | | mm | | |
| TOTAL HEAD | | 26 | m | | | m | | |
| CAPACITY | MAX. | 0.5 2.2 | m³/min kW | | | m³/min kW | | |
| MOTOR OUTPUT PHASE × VOLTAGE | 3 | ∠ · ∠ | V | | φ× | | | |
| CURRENT | | | A | | | А | | |
| POLES / REVOLUTION | 2 P/ | | | Р | / | min ⁻¹ | | |
| STARTING METHOD | DIREC | T ON L | I NE | | | | | |
| INSULATION CLASS | | F | | | | | | |
| | | | | REMARKS: | | | | |
| 30 | | | | | | | | |
| - - - - | | | | | | | | |
| | | | | | | | | |
| 100+ + 25 | , , | | | | | | | |
| 90+++ | 107 | 7/ | | | | | | |
| | | 1/ HEAD | | | | | | |
| 80+ + 20 | | | | | | | | |
| 70+ | | | | | | | | |
| 60+ + 15 | | | | | | | | |
| | | | | | | | | |
| 50+ + | Mila | P EFF. | | | | | | |
| 40+ + 10 | 10 | | | | | | | |
| 30+3+ | | | | | | | | |
| 30 - 3 - | / 011 | TPUT | | | | | | |
| 20 + 2 + 5 | - 00 | 1101 | | | | | | |
| 10+1+ | | | | | | | | |
| | | | | | | | | |
| % kW m 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | m³/min | | |
| PUMP MOTOR TOTAL CAPACIT | ТҮ | | | | | | | |
| | | | | | | | | |
| ı TSUR | RUMI MFG. | CO | I TD. | | | | | |

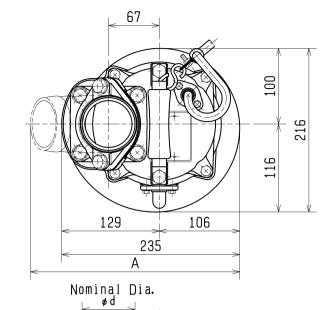


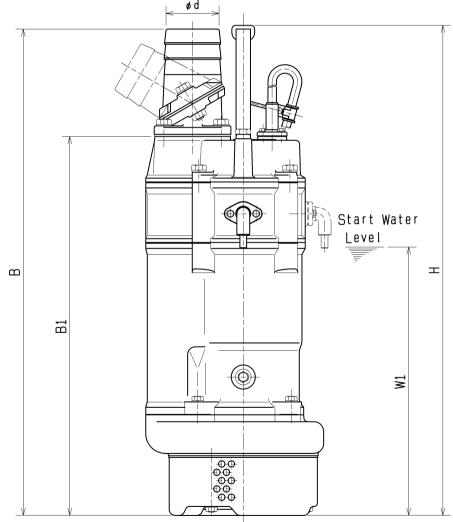
DIMENSION DRAWING No. No. A-21045-1

TYPE

SUBMERSIBLE GENERAL DEWATERING PUMP

MODEL KTZE21.5 -51/61, KTZE22.2 -51/61 KTZE31.5 -51/61, KTZE32.2 -51/61





*excluding cable

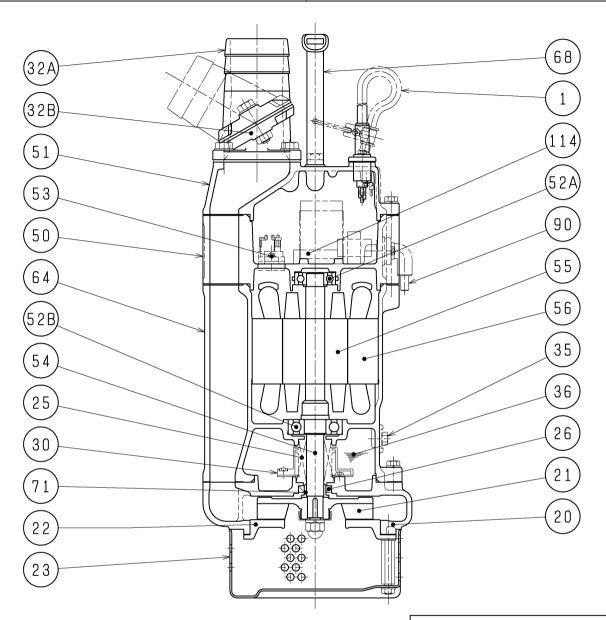
| MODEL | d | А | В | В1 | Н | W 1 | Approximate Weight(*) |
|-----------------|----|-----|-----|-----|-----|-----|--------------------------|
| KTZE21.5-51/61 | 50 | 270 | 623 | 481 | 628 | 345 | 39 k g |
| KTZE31.5-51/61 | 80 | 276 | 623 | 481 | 628 | 345 | 38kg |
| KTZE22. 2-51/61 | 50 | 270 | 643 | 501 | 648 | 355 | 41kg |
| KTZE32. 2-51/61 | 80 | 276 | 643 | 501 | 648 | 355 | 40kg |



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 | | | | |