

SPECIFICATIONS

Model

KTZ615

KTZ-series

15kW, 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

Discharge Bore & Connection

150mm, Multi-directional Hose Coupling

Motor Output

15kW

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⁻¹ (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz

380V - 29.5A

400V - 28.3A

415V - 27.4A

Power Cable

Sheath: Chloroprene rubber

Standard Length: 8m

380 to 600V supply:

1 x 4 x 5.5mm², O.D. 19.8mm

Dry Weight (excluding cable)

147kg

Impeller

Semi-open impeller made of high-chromium cast iron

Solids Passage

50Hz- ≠ 20mm

60Hz- ≠ 20mm

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

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the 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), 820ml

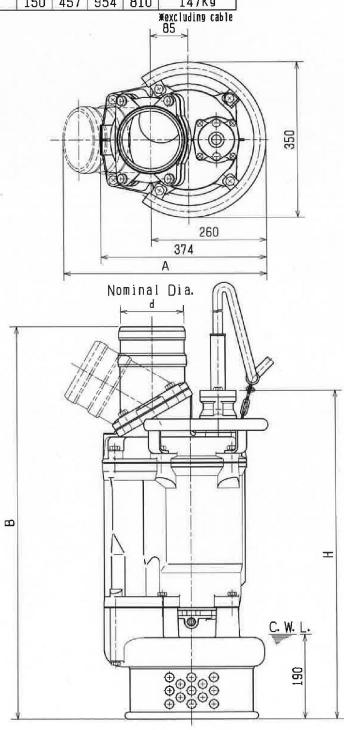
Motor Protection Device

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 PUMP

DIMENSION DRAWING	No.	N	0.
TYPE Submersible Dewatering Pump		TZ411 -53/63 TZ611 -53/63	

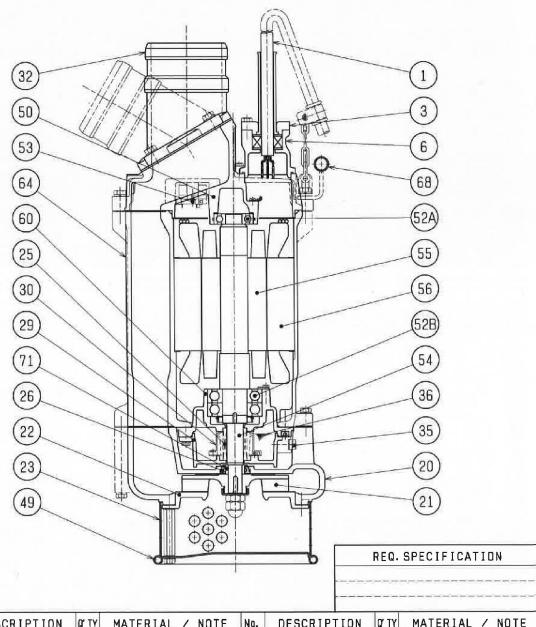
MODEL	d	Α	В	Н	Approximate Weight(*)
KTZ411-53/63	100	428	864	740	133kg
KTZ611-53/63	150	457	884	740	133kg
KTZ415-51	100	428	934	810	146kg
KTZ615-51	150	457	954	810	147kg



C.W.L.:Continuous running Water Level

TSURUMI PUMP

SECTIONAL DRAWING No. No. TYPE Submersible Dewatering Pump MODEL KTZ415 -51 KTZ615 -51



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No.	DESCRIPTION	Q TY	MATERIAL / NOTE	No.	DESCRIPTION	Q TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	49	Bottom Plate	1	Steel Sheet
3	Gland	1	Gray Iron Casting	50	Motor Bracket	1	Gray Iron Casting
6	Stuffing Box	1	Gray Iron Casting	52A	Upper Bearing	1	6306ZZC3
20	Pump Casing	1	Gray Iron Casting	52B	Lower Bearing	1	6309ZZD2C3
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	Gray Iron Casting	71	Shaft Sleeve	1	Stainless Steel 403
35	Oil Plug	1	Stainless Steel 304				
36	Lubricant		Turbine Oil (ISO VG32)				

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TYPE Submer	sible	Dewate	ering	Pump	MODI	EL	KTZ	761	5 - !	51	FREG	IUEI
CUSTOMER'S	NAME											
EQUIPMENT	TITLE								_	-	J.D.	
-											10.	
DISCHARGE BO	IRF.		STAN		SPECI	FICA	TION	S	REQ	UIRED	SPECIF	- 1 C
TOTAL HEAD			١		39.5			m				
CAPACITY					2. 8		m ³,	/min				
MOTOR OUTPUT					15		Tr.	k W				
PHASE × VOL1	AGE			3	φ×			V			φ×	
POLES / REVO	LUTION			2 P/	S.	S. 30	000	min ⁻¹		P /	/	
STARTING ME	THOD			DIRE	CT ON	LI	NE					
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80+ + 40												
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50++					1				1			
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10 3												
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PUMP MOTOR TOTA EFF. DUTPUT HEAD	- ا	CAPACITY										