SPECIFICATIONS

Model

KRS2-D3/B3

KRS-series

3.7kW, 3-phase

Type of Pump

Submersible high volume 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

80mm, Hose Coupling

Motor Output

3.7kW

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: E

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

4-pole, 1500/1800min⁻¹ (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz 60Hz

380V - 8.3A 220V - 14.4A 400V - 8.0A 380V - 8.3A 415V - 7.8A 440V - 7.2A

Power Cable

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

1 x 4 x 2.0mm², O.D. 14.4mm

Dry Weight (excluding cable)

91kg

Impeller

Semi-open Impeller made of ductile 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

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), 1850ml

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.

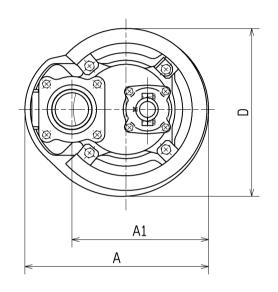
NO. A-22164-1 PUMP PERFORMANCE CURVES TYPE MODEL FREQUENCY KRS2-B3 Submersible Dewatering Pump 60 Ηz CUSTOMER'S NAME EQUIPMENT TITLE NO. STANDARD SPECIFICATIONS REQUIRED SPECIFICATIONS DISCHARGE BORE 80 15 TOTAL HEAD m 0.5 m³/min m³/min CAPACITY 3.7 MOTOR OUTPUT k₩ k₩ 3 PHASE × VOLTAGE φX ٧ φX CURRENT Α min^{-1} 4 P/ S. S. 1800 POLES / REVOLUTION P/ STARTING METHOD DIRECT ON LINE INSULATION CLASS Ε REMARKS: + 24 100+ + 2090+ 80+ + 1670+ TOTAL HEAD 60+ + 12PUMP EFF 50 +40+ + 830 + 6+ 20 + 4 + 4OUTPUT 10 + 2+ % k W 0.2 0.6 0.8 0.4 1.0 1. 2 m³∕min PUMP MOTOR TOTAL EFF. OUTPUT HEAD CAPACITY TSURUMI MFG. CO., LTD.

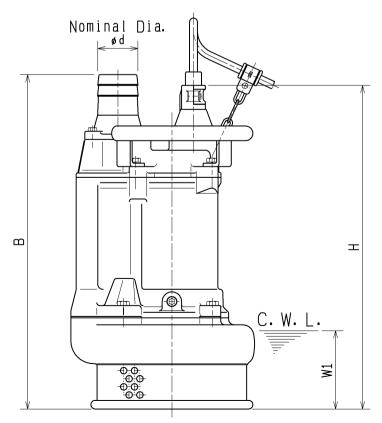


	DIMENSION	DRAWING	No.	N	o. A-22182-1
TYPE	Submersible Dewat	ering Pump	MODEL	KRS2-A3/B3 KRS2-A4/B4	

FREQUENCY	MODEL	ød	Α	A1	D	В	Н	W1	Approximate Weight(*)
	C3	80	340	253	311	619	599	145	72kg
50Hz	C4	100	349	259	320	719	684	155	88kg
3002	D3	80	362	272	346	704	684	155	91kg
	D4	100	362	272	346	709	674	155	98kg
	A3	80	340	253	311	619	599	145	72kg
60Hz	A4	100	349	259	320	719	684	155	88kg
0002	В3	80	349	259	320	704	684	155	89kg
	B4	100	349	259	320	709	674	155	95kg

*excluding cable

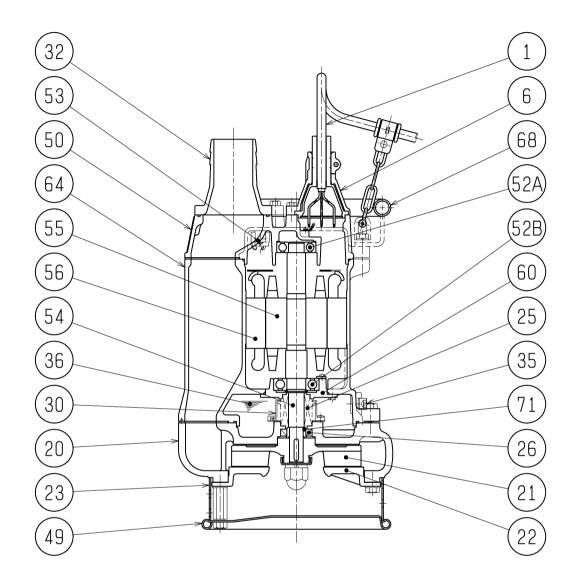




C. W. L. : Continuous running Water Level



	SECTIONAL	DRAWING	No.		No.	A-22189-1
TYPE	Submersible Dewa	tering Pump	MODEL	KRS2-A3/E KRS2-A4/E	_	



	* 1	* 2	* 3
2.2kW	H-25	TC305011	6306ZZC3
3.7kW	H-30	TC355511	6307ZZC3
5.5kW	H-30	TC355511	6308ZZC3

RI	EQ.SPE	CIFICA	ATION	

No.	DESCRIPTION	Q' TY	MATERIAL / NOTE	No.	DESCRIPTION	Q' TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	50	Motor Bracket	1	Gray Iron Casting
6	Stuffing Box	1	Gray Iron Casting	52A	Upper Bearing	1	6305ZZC3
20	Pump Casing	1	Gray Iron Casting	52B	Lower Bearing	1	*3
21	Impeller	1	Ductile Iron Casting	53	Motor Protector	1	
22	Suction Cover	1	Gray Iron Casting	54	Shaft	1	Stainless Steel 420J2
23	Strainer	1	Steel Sheet	55	Rotor	1	
25	Mechanical Seal	1	*1	56	Stator	1	
26	Oil Seal	1	*2	60	Bearing Housing	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Gray Iron Casting
32	Hose Coupling	1	Gray Iron Casting	68	Handle	1	Carbon Steel Pipe & Steel Sheet
35	Oil Plug	1	Stainless Steel 304	71	Shaft Sleeve	1	Stainless Steel 403
36	Lubricant		Turbine Oil (ISO VG32)				
49	Bottom Plate	1	Steel Sheet				