# 🧭 Tsurumi Pump

## SPECIFICATIONS Model

## **KRS2-C3/A3**

### Drainage Pumps KRS-series

2.2kW, 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 2.2kW

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<sup>-1</sup> (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 5.2A
 220V - 9.0A

 400V - 5.1A
 380V - 5.2A

 415V - 5.1A
 440V - 4.5A

#### **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) 72kg

#### Impeller

Semi-open Impeller made of ductile cast iron

Solids Passage 50Hz –  $\phi$ 12mm 60Hz –  $\phi$ 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)

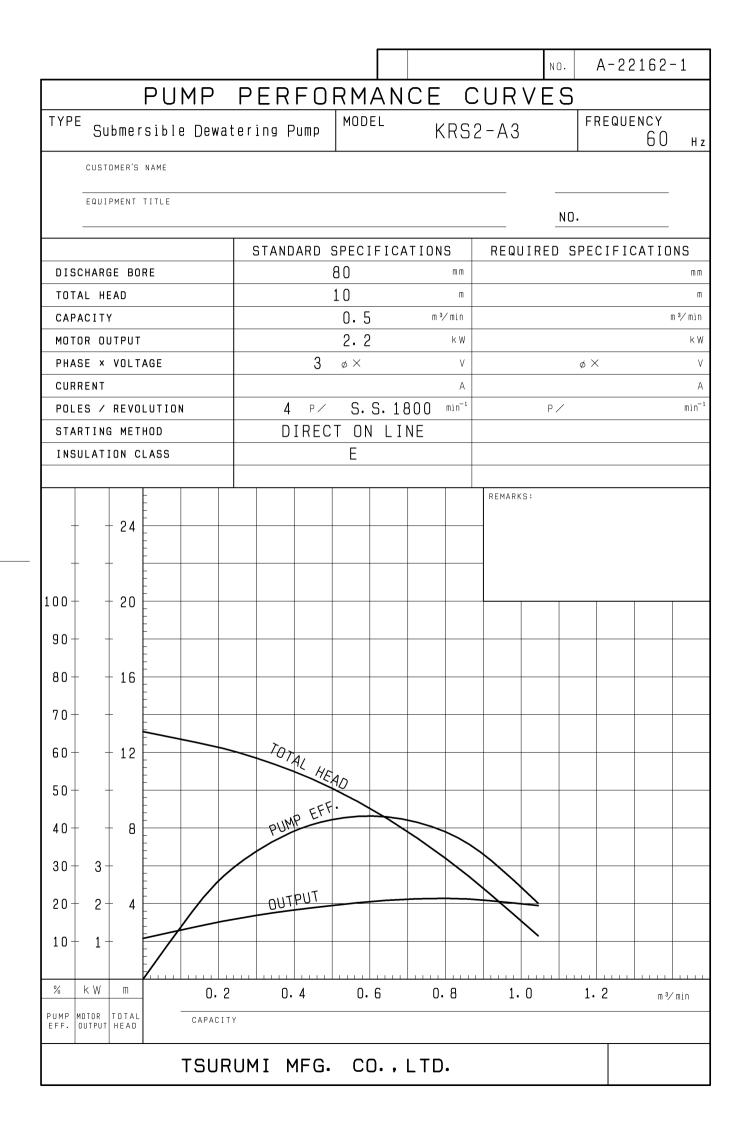
Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1200ml

#### **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.

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# <u> Tsurumi Pump</u>

## DIMENSION DRAWING No.

Submersible Dewatering Pump

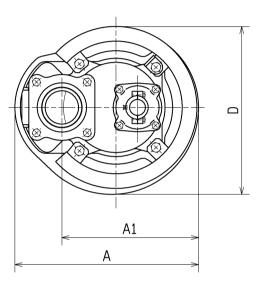
MODEL KF

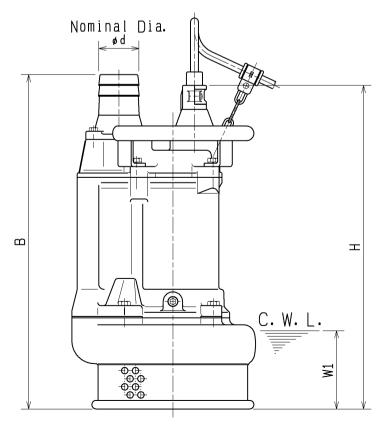
| No. | A-22182-1 KRS2-A3/B3/C3/D3 KRS2-A4/B4/C4/D4

FREQUENCY	MODEL	ød	А	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
5082	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	B3	80	349	259	320	704	684	155	89kg
	B4	100	349	259	320	709	674	155	95kg

\*excluding cable

TYPE

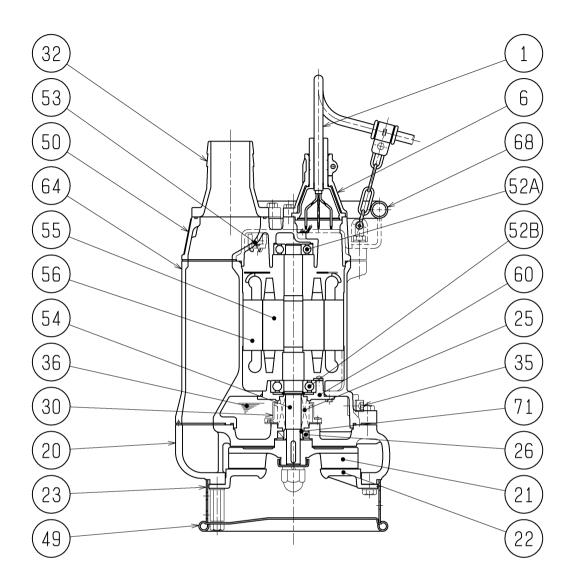




C. W. L. : Continuous running Water Level

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Ø	<b>SURUMI PUMP</b>				
	SECTIONAL	DRAWING	Νο.	No.	A-22189-1
TYPE	Submersible Dewa		MODEL	KRS2-A3/B3/0 KRS2-A4/B4/0	



		*1	×	¥2	*3				ı				
2.	2kW	H-25	ТСЗС		_						REQ. SPECIFICATION		
	7 k W	H-30		55511 6307ZZC3									
	5.5kW H-30 TC355511 6308ZZC3												
No.	DE	SCRIPT	ION	Q' TY	MATERIAL /	NOTE	No.	DESC	CRIPT	ION	Q' TY	MATERIAL / NOTE	
1	Cabtyre Cable 1 Chl		Chloroprene Shea	ıth	50 Motor Bracke		et	1	Gray Iron Casting				
6	Stuffing Box 1 (		Gray Iron Casting		52A	Upper Bearing			1	6305ZZC3			
20	Pump Casing 1		Gray Iron Casting		52B	28 Lower Bearing			1	*3			
21	Impeller 1		1	Ductile Iron Casting		53	Motor	Prote	ctor	1			
22	2 Suction Cover 1		Gray Iron Casting		54	Shaft			1	Stainless Steel 420J2			
23	Stra	iner		1	Steel Sheet		55	Rotor			1		
25	Mech	anical Se	eal	1	*1		56	Stator			1		
26	Oil	Seal		1	<b>*</b> 2		60	Bearin	g Hous	sing	1	Gray Iron Casting	
30	Oil Lifter 1 F		Plastic		64	Motor	Frame		1	Gray Iron Casting			
32	Hose	lose Coupling 1 Gray Iron Casting		g	68	Handle		1	Carbon Steel Pipe & Steel Sheet				
35	Oil	Plug		1	Stainless Steel	304	71	Shaft S	Sleeve	9	1	Stainless Steel 403	
36	Lubr	icant			Turbine Oil (ISO	) VG32)							
49	Bott	om Plate		1	Steel Sheet								

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