**SPECIFICATIONS** 

Model

# **KRS2-80**

KRS(Slurry)-series

4kW, 3-phase

### Type of Pump

Submersible slurry pump for construction and foundation works, mining, and quarries, etc.

#### Type of Fluid

Water containing sand, mud, and slurry

Temperature: 0 to 40°C

(High temperature model available on special request)

#### **Discharge Bore & Connection**

80mm, Hose Coupling

#### **Motor Output**

4kW

### **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 - 10.2A 220V - 16.5A 400V - 9.5A 380V - 9.6A 415V - 9.5A 440V - 8.5A

## **Power Cable**

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

1 x 4 x 3.5mm<sup>2</sup>, O.D. 16.8mm

### Dry Weight (excluding cable)

105kg

#### Impeller

Semi-open Impeller made of high-chromium cast iron

Solids Passage 50Hz –  $\phi$ 30mm 60Hz –  $\phi$ 30mm

#### **Agitator**

High-chromium cast iron

#### **Suction Plate**

Made of high-chromium cast iron, excellent in abrasion-resistance

#### 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**

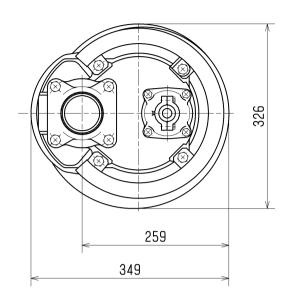
A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

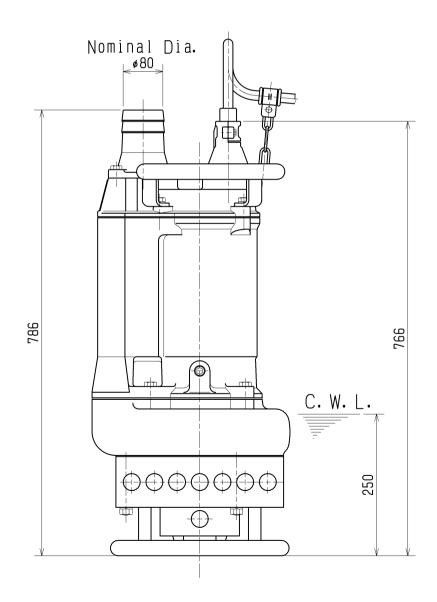
A-22022-1 NO. PUMP PERFORMANCE CURVES TYPE MODEL FREQUENCY Submersible Slurry Pump KRS2-80 50 Ηz CUSTOMER'S NAME EQUIPMENT TITLE NO. STANDARD SPECIFICATIONS REQUIRED SPECIFICATIONS 80 DISCHARGE BORE TOTAL HEAD 10 m 1.0 m³/min m³/min CAPACITY 4.0 MOTOR OUTPUT k₩ ΚW 3 PHASE × VOLTAGE φ× ٧ φX CURRENT Α 4 P/ S. S.  $1500 \text{ min}^{-1}$  $min^{-1}$ POLES / REVOLUTION P/ STARTING METHOD DIRECT ON LINE Ε INSULATION CLASS REMARKS: 24 100 ++ 2090+ +08+ 16 TOTAL 70 +HEAD 60+ + 1250 +40+ + 8PUMP 30 + 6+ OUT PUT 20 + 4 + 410 + 2+ % k W 1.2 0.8 2.0 2.4 0.4 1.6 m³/min PUMP MOTOR TOTAL EFF. OUTPUT HEAD CAPACITY TSURUMI MFG. CO., LTD.



D	IMENSION	DRAWIN	1 G	No.		No.	A-22028-1
TYPE	Submersible S	lurry Pump	MODEL		KRS2	2 – 8	0

Approximate Weight(%)
105kg
\*excluding cable

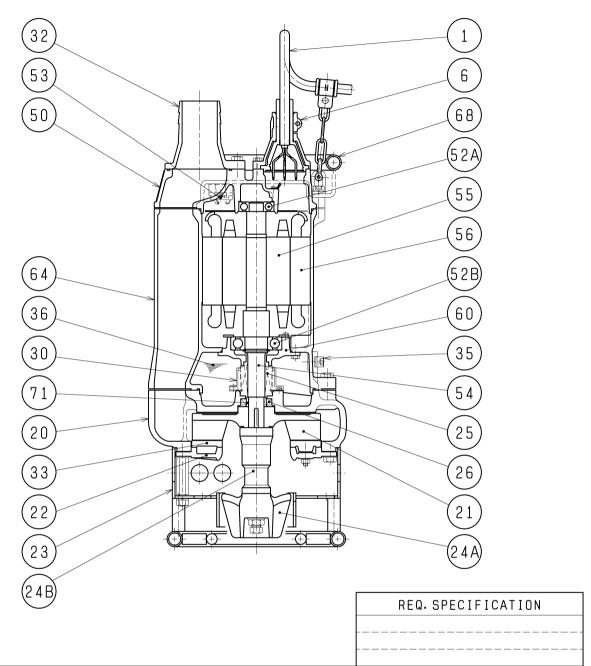




C. W. L. : Continuous running Water Level



SECTIONAL	DRAWING	No.	No. A-22031-1
TYPE Submersible Sl	urry Pump	MODEL	KRS2-80



No.	DESCRIPTION	Q' TY	MATERIAL / NOTE	No.	DESCRIPTION	Q' TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	36	Lubricant		Turbine Oil(ISO VG32)
6	Stuffing Box	1	Gray Iron Casting	50	Motor Bracket	1	Gray Iron Casting
20	Pump Casing	1	Gray Iron Casting	52A	Upper Bearing	1	6305ZZC3
21	Impeller	1	Chromium Iron Casting	52B	Lower Bearing	1	6308ZZC3
22	Suction Cover	1	Gray Iron Casting	53	Motor Protector	1	
23	Strainer Stand	1	Steel Sheet & Carbon Steel Pipe	54	Shaft	1	Stainless Steel 420J2
24A	Agitator	1	Chromium Iron Casting	55	Rotor	1	
24B	Connecting Rod	1	Malleable Iron Casting(Quenching)	56	Stator	1	
25	Mechanical Seal	1	H-30	60	Bearing Housing	1	Gray Iron Casting
26	Oil Seal	1	TC355511	64	Motor Frame	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	68	Handle	1	Steel Sheet & Carbon Steel Pipe
32	Hose Coupling	1	Gray Iron Casting	71	Shaft Sleeve	1	Stainless Steel 403
33	Suction Plate	1	Chromium Iron Casting				
35	Oil Plug	1	Stainless Steel 304				