

SPECIFICATIONS	Model	KRS(E-Save)-series							
	KRS2-89								
		9kW, 3-phase							
<p><b>Type of Pump</b> Submersible high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p>	<p><b>Impeller</b> Semi-open Impeller made of ductile cast iron</p>								
<p><b>Type of Fluid</b> Stormwater, groundwater, wash water, and sand-carrying water</p>	<p>Solids Passage 50Hz – <math>\phi</math>30mm 60Hz – <math>\phi</math>30mm</p>								
<p>Temperature: 0 to 40°C (High temperature model available on special request)</p>	<p><b>Cable Entry with Anti-Wicking Block</b> Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p>								
<p><b>Discharge Bore &amp; Connection</b> 200mm, Hose Coupling</p>	<p><b>Bearing</b> Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p>								
<p><b>Motor Output</b> 9kW</p>	<p><b>Shaft</b> 420 stainless steel</p>								
<p><b>Power Supply</b> Three-phase</p>	<p><b>Shaft Seal (Mechanical Seal)</b> Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p>								
<p><b>Starting Method</b> Direct on Line (Star-Delta available on special request)</p>	<p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p>								
<p><b>Motor</b> Continuous-duty rated, dry-type induction motor</p>	<p><b>Oil Seal (Lip Seal)</b> Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p>								
<p>Insulation Class: B Degree of Protection: IP68</p>	<p><b>OIL LIFTER (Patented)</b> 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.</p>								
<p>No. of Poles &amp; Speed (Synchronous Speed) 4-pole, 1500/1800min<sup>-1</sup> (50/60Hz)</p>	<p>Type of Lubricating Oil &amp; Volume Turbine Oil (ISO VG32), 2300ml</p>								
<p>Power Supply Voltages &amp; Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 20.0A</td> <td>220V – 33.0A</td> </tr> <tr> <td>400V – 19.0A</td> <td>380V – 19.1A</td> </tr> <tr> <td>415V – 19.0A</td> <td>440V – 16.5A</td> </tr> </table>	50Hz	60Hz	380V – 20.0A	220V – 33.0A	400V – 19.0A	380V – 19.1A	415V – 19.0A	440V – 16.5A	<p><b>Motor Protection Device</b> 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.</p>
50Hz	60Hz								
380V – 20.0A	220V – 33.0A								
400V – 19.0A	380V – 19.1A								
415V – 19.0A	440V – 16.5A								
<p><b>Power Cable</b> Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 5.5mm<sup>2</sup>, O.D. 19.8mm</p>									
<p><b>Dry Weight (excluding cable)</b> 175kg</p>									

NO. A-22177-1

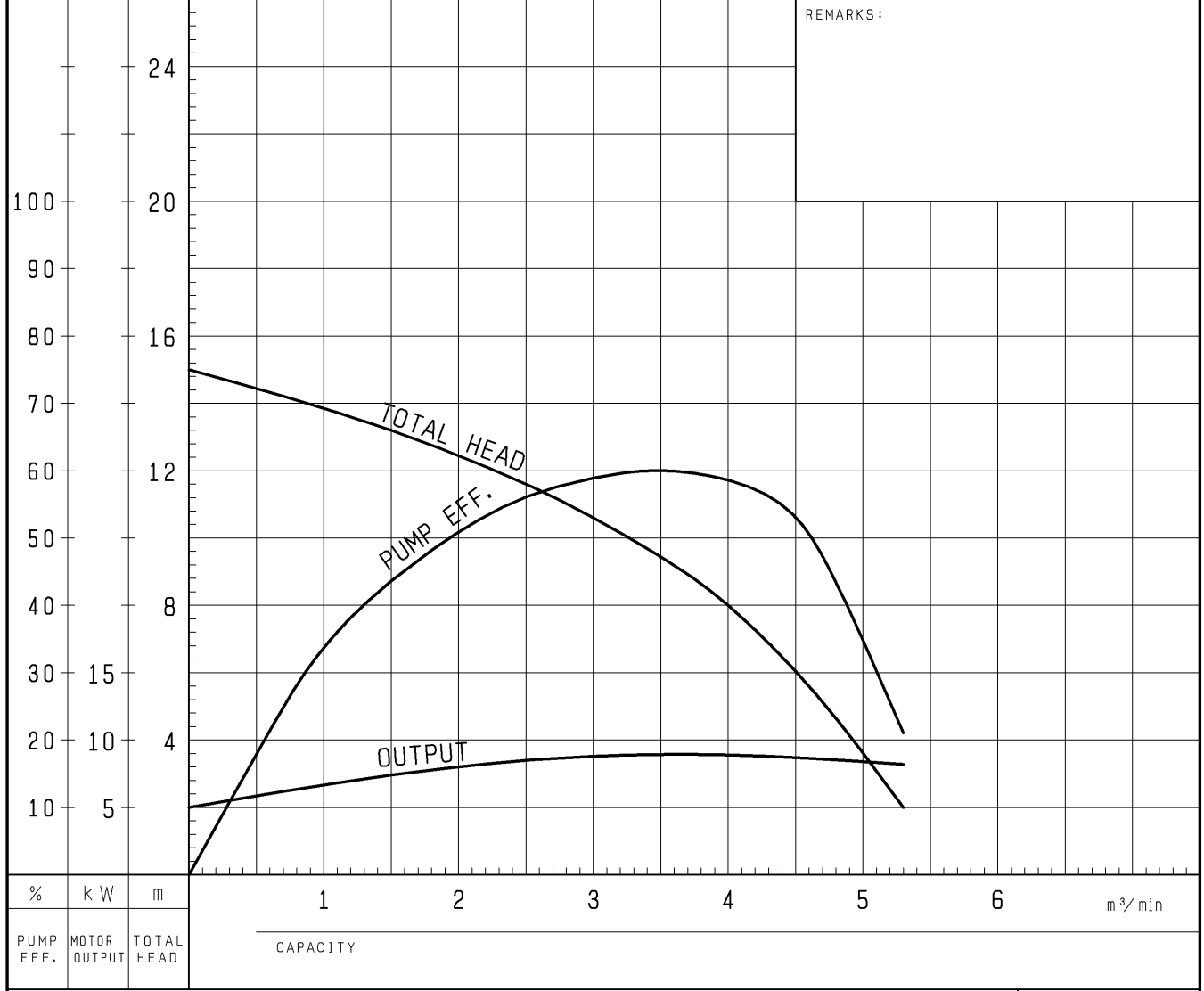
# PUMP PERFORMANCE CURVES

TYPE Submersible Dewatering Pump	MODEL KRS2-89	FREQUENCY 50 Hz
-------------------------------------	------------------	--------------------

CUSTOMER'S NAME \_\_\_\_\_

EQUIPMENT TITLE \_\_\_\_\_ NO. \_\_\_\_\_

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	200 mm	mm
TOTAL HEAD	8 m	m
CAPACITY	4.0 m <sup>3</sup> /min	m <sup>3</sup> /min
MOTOR OUTPUT	9.0 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	4 P / S. S. 1500 min <sup>-1</sup>	P / min <sup>-1</sup>
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	B	

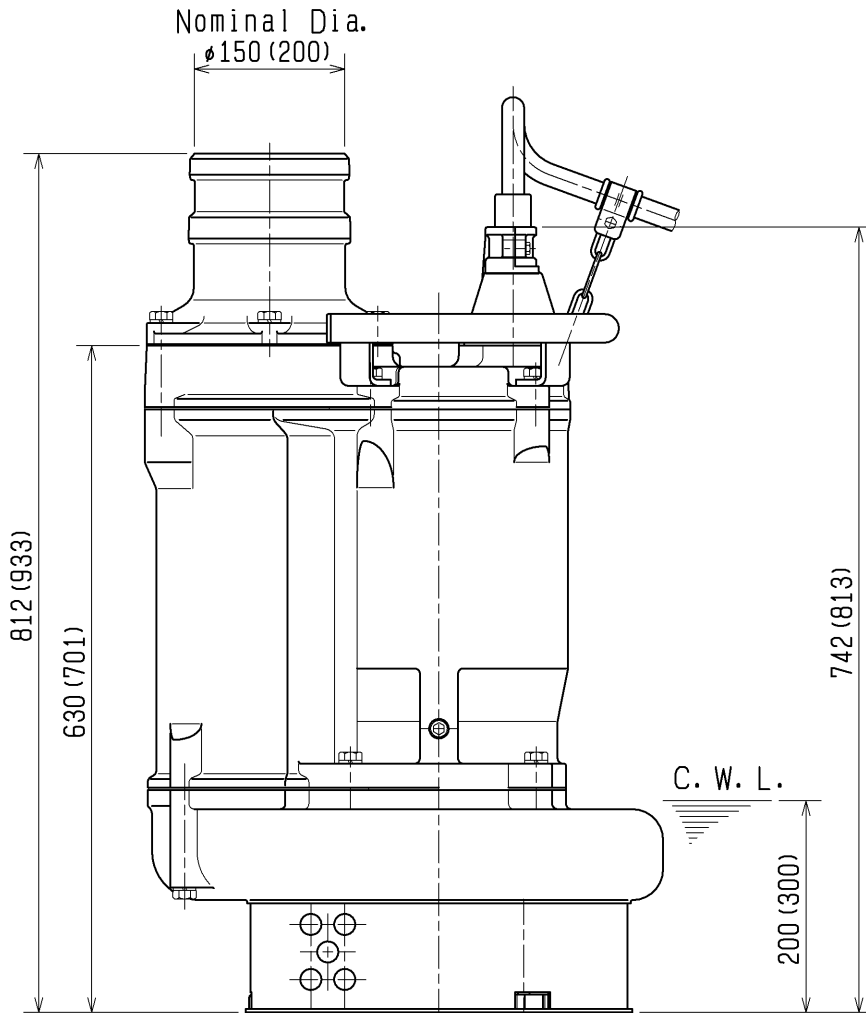
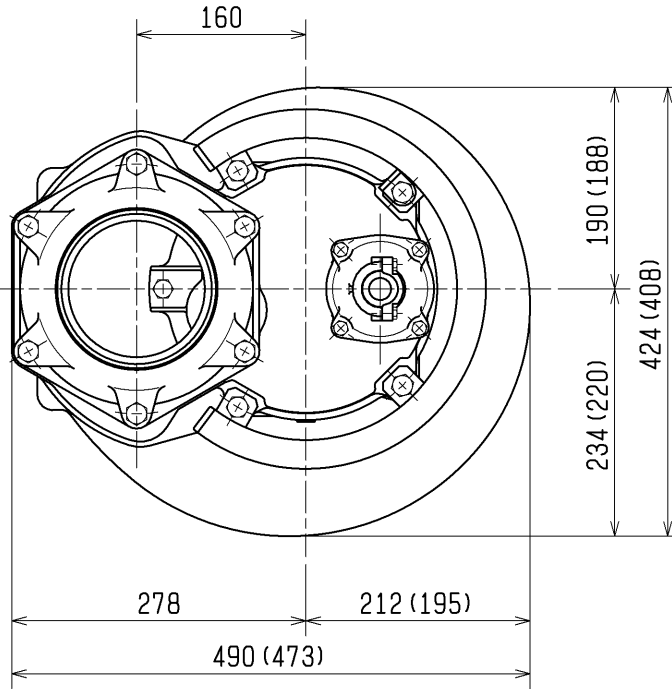


TSURUMI MFG. CO., LTD.

<b>DIMENSION DRAWING</b>		No.	No. A-22185-1
TYPE	Submersible Dewatering Pump	MODEL	KRS2-69/89

MODEL	Approximate Weight (※)
KRS2-69	155kg
KRS2-89	175kg

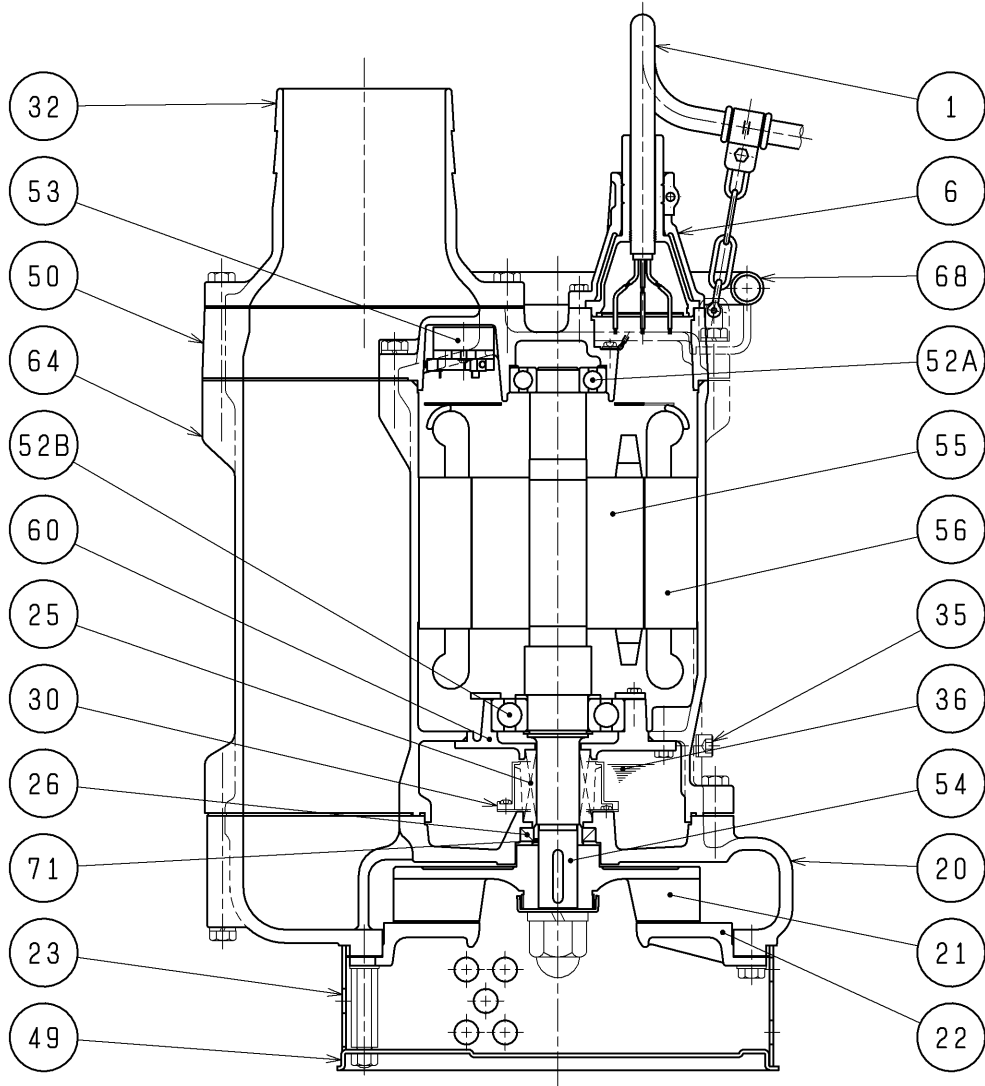
※excluding cable



The Figure in ( ) shows the dimensions of KRS2-89.

C. W. L. :Continuous running Water Level

SECTIONAL DRAWING		No.	No. A-22192-1
TYPE	Submersible Dewatering Pump	MODEL	KRS2-69 KRS2-89



REQ. SPECIFICATION

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	6307ZZC3
20	Pump Casing	1	Gray Iron Casting	52B	Lower Bearing	1	6310ZZC3
21	Impeller	1	Ductile Iron Casting (Quenching)	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	H-35	56	Stator	1	
26	Oil Seal	1	TC406211	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				