SPECIFICATIONS	Model	KTV2-80	KTV(Slurry)-series
			3kW, 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

Discharge Bore & Connection
80mm, Hose Coupling
(100mm discharge bore available on special request)

Motor Output
3kW

Power Supply
Three-phase

Starting Method
Direct on Line

Motor
Continuous-duty rated, dry-type induction motor

Insulation Class: E
Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)
2-pole, 3000/3600min^{-1} (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz	60Hz
380V – 7.0A	220V – 10.6A
400V – 6.1A	380V – 6.1A
415V – 6.1A	440V – 5.8A

Power Cable
Sheath: Chloroprene rubber
Standard Length: 8m
200 to 600V supply:
1 x 4 x 2.0mm^2, O.D. 14.4mm

Dry Weight (excluding cable)
38kg

Impeller
Vortex impeller designed for "high-gap structure", made of high-chromium cast iron

Solids Passage
50Hz – ϕ8.5mm
60Hz – ϕ8.5mm

Agitator
Ductile cast iron

Cable Entry with Anti-Wicking Block
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.

Bearing
Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft
403 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 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), 400ml

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-08174-2

PUMP PERFORMANCE CURVES

TYPE	MODEL	FREQUENCY
Submersible Slurry Pump	KTV2-80	60 Hz

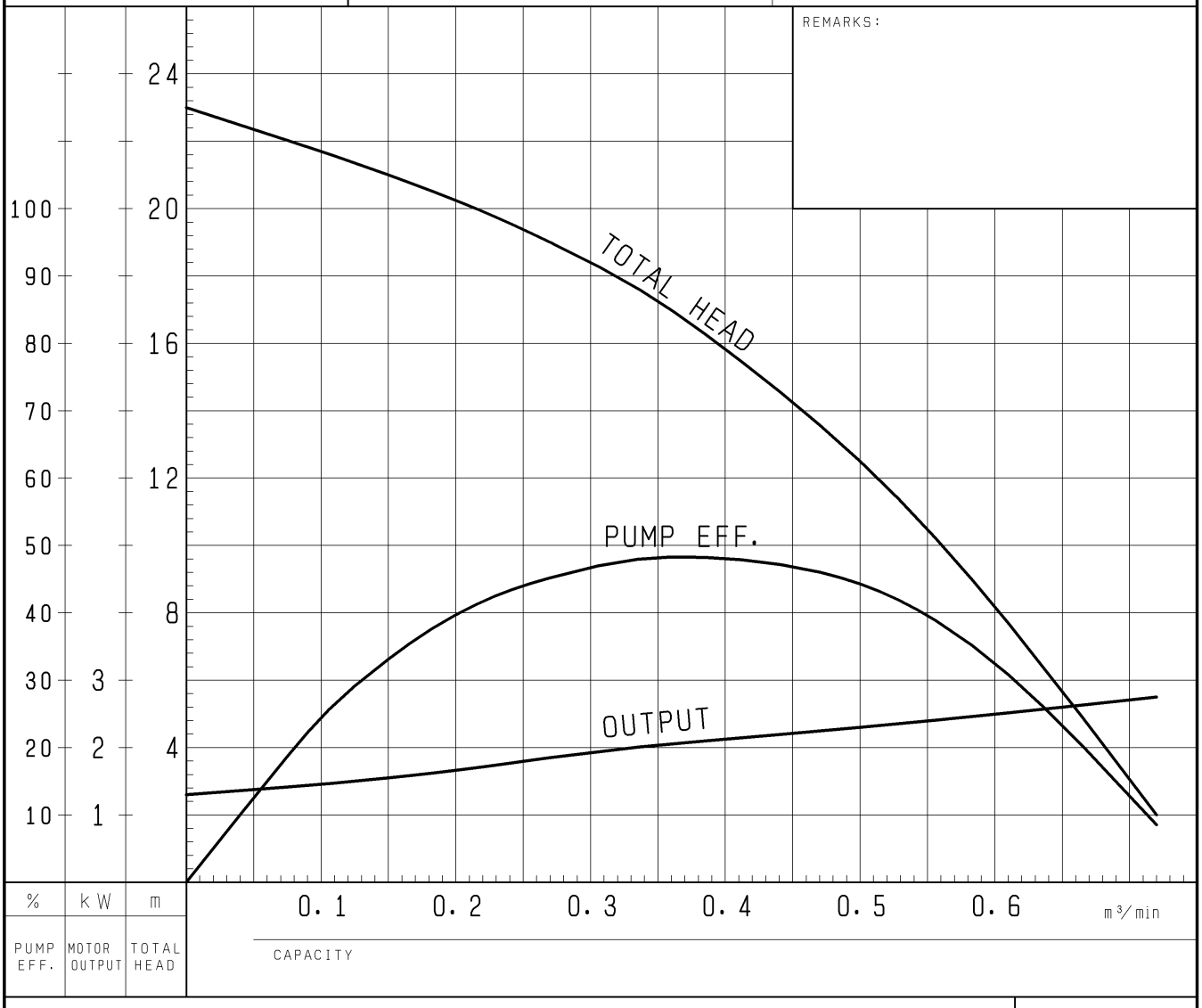
CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	12 m	m
CAPACITY	0.5 m^3/min	m^3/min
MOTOR OUTPUT	3.0 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P/ S.S. 3600 min^{-1}	P/ min^{-1}
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	

REMARKS:



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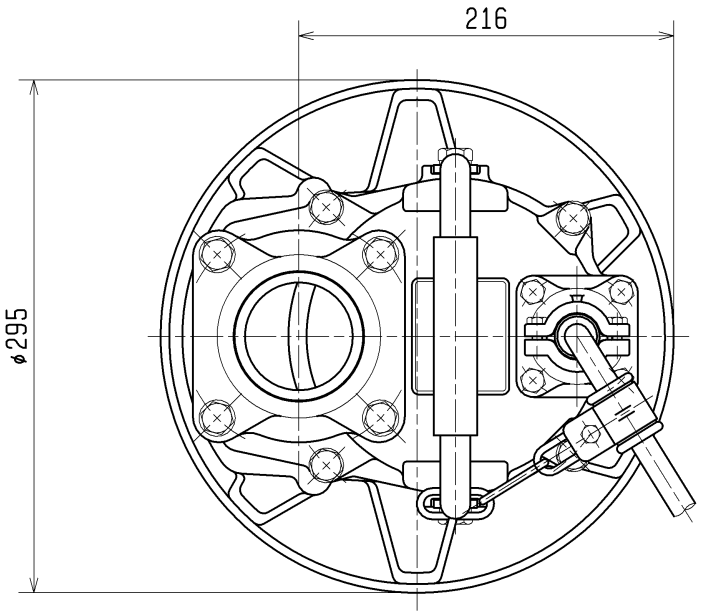
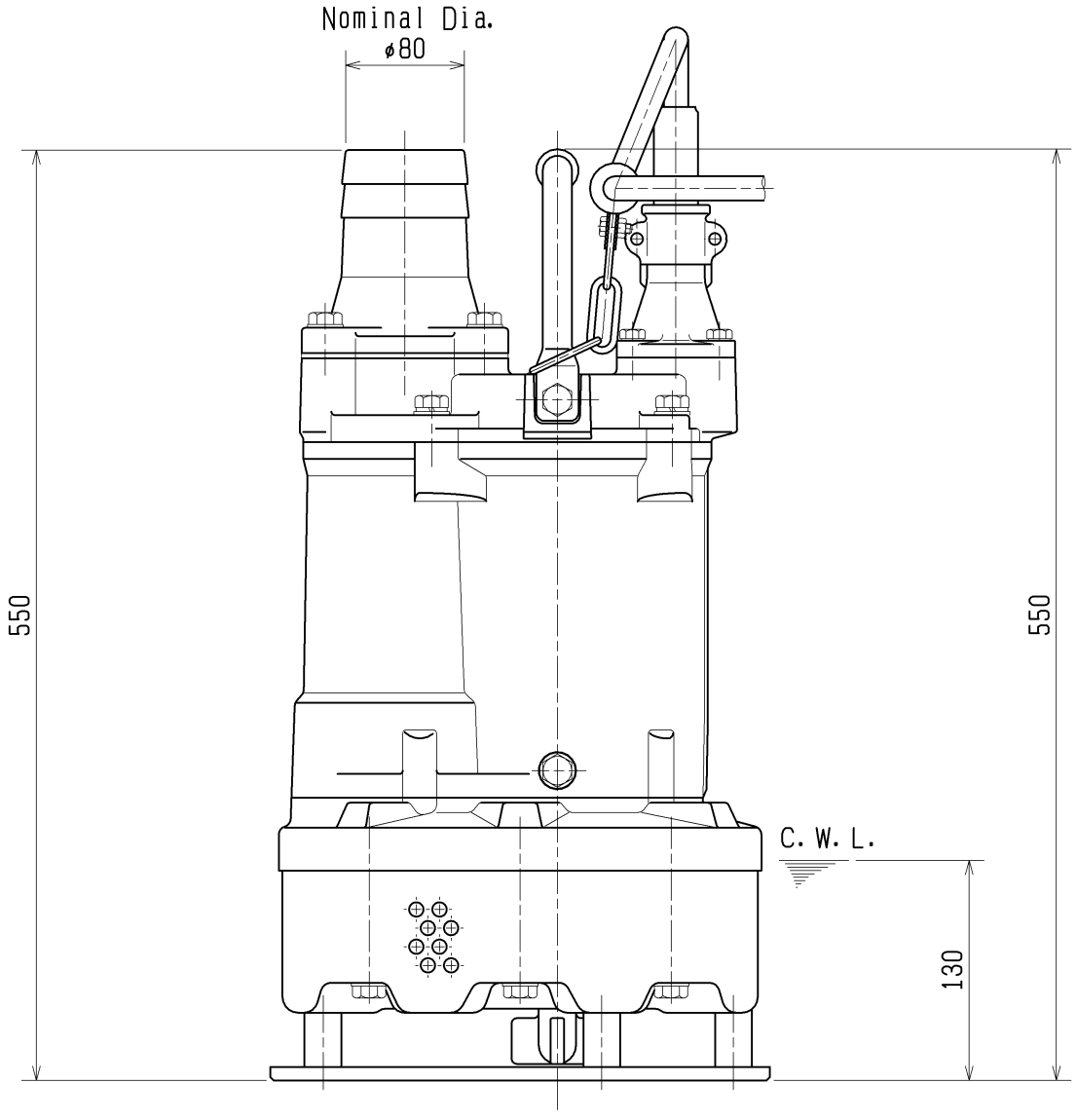
TSURUMI PUMP

DIMENSION DRAWING	No.		No.	A-22073-1
TYPE Submersible Slurry Pump		MODEL KTV2-80		

Approximate Weight (※)
38kg

※excluding cable





C. W. L. :Continuous running Water Level

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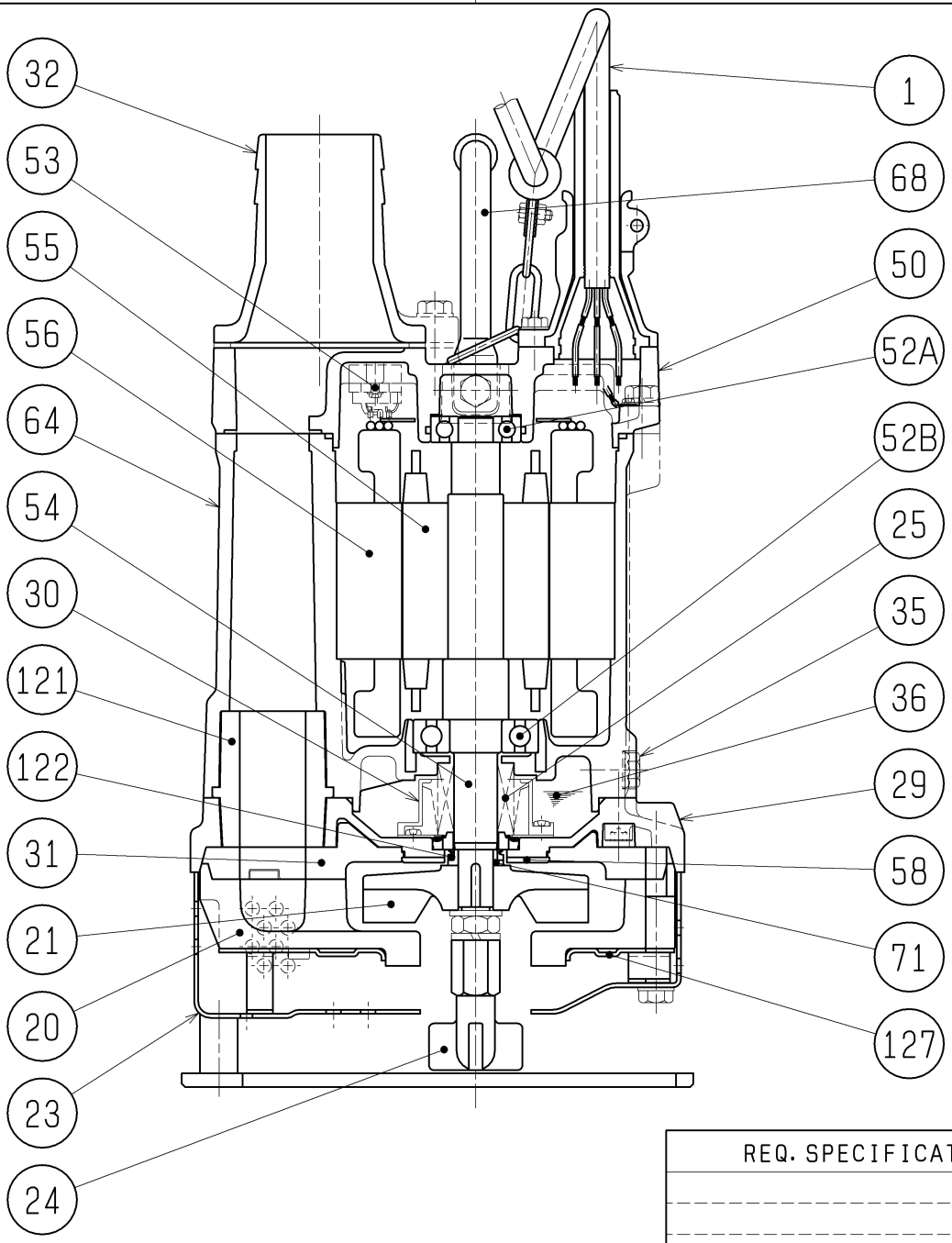
unit:mm

TSURUMI PUMP

SECTIONAL DRAWING	No.		No.	A-22080-1
TYPE Submersible Slurry Pump		MODEL KTV2-80		



REQ. SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	52B	Lower Bearing	1	6306ZZC3
20	Pump Casing	1	Butadiene Rubber + Natural Rubber	53	Motor Protector	1	
21	Impeller	1	Chromium Iron Casting	54	Shaft	1	Stainless Steel 403
23	Strainer Stand	1	Steel Sheet & Carbon Steel Pipe	55	Rotor	1	
24	Agitator	1	Ductile Iron Casting	56	Stator	1	
25	Mechanical Seal	1	H-25T	58	Protection Plate	1	Stainless Steel 304
29	Oil Casing	1	Aluminium Die Casting	64	Motor Frame	1	Aluminium Die Casting
30	Oil Lifter	1	Plastic	68	Handle	1	Carbon Steel Pipe & Rubber
31	Rear Liner	1	Butadiene Rubber	71	Shaft Sleeve	1	Stainless Steel 304
32	Hose Coupling	1	Aluminium Die Casting	121	Packing	1	Styrene Butadiene Rubber
35	Oil Plug	1	Stainless Steel 304	122	V-ring	1	Nitrile Butadiene Rubber
36	Lubricant		Turbine Oil (ISO VG32)	127	Fixing Plate	1	Steel Sheet
50	Motor Bracket	1	Aluminium Die Casting				
52A	Upper Bearing	1	6204ZZC3				

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