

NO. A-14244-2

PUMP PERFORMANCE CURVES

TYPE Submersible
Vortex Sewage Pump

MODEL 40PU (A/W) 2.15S -54

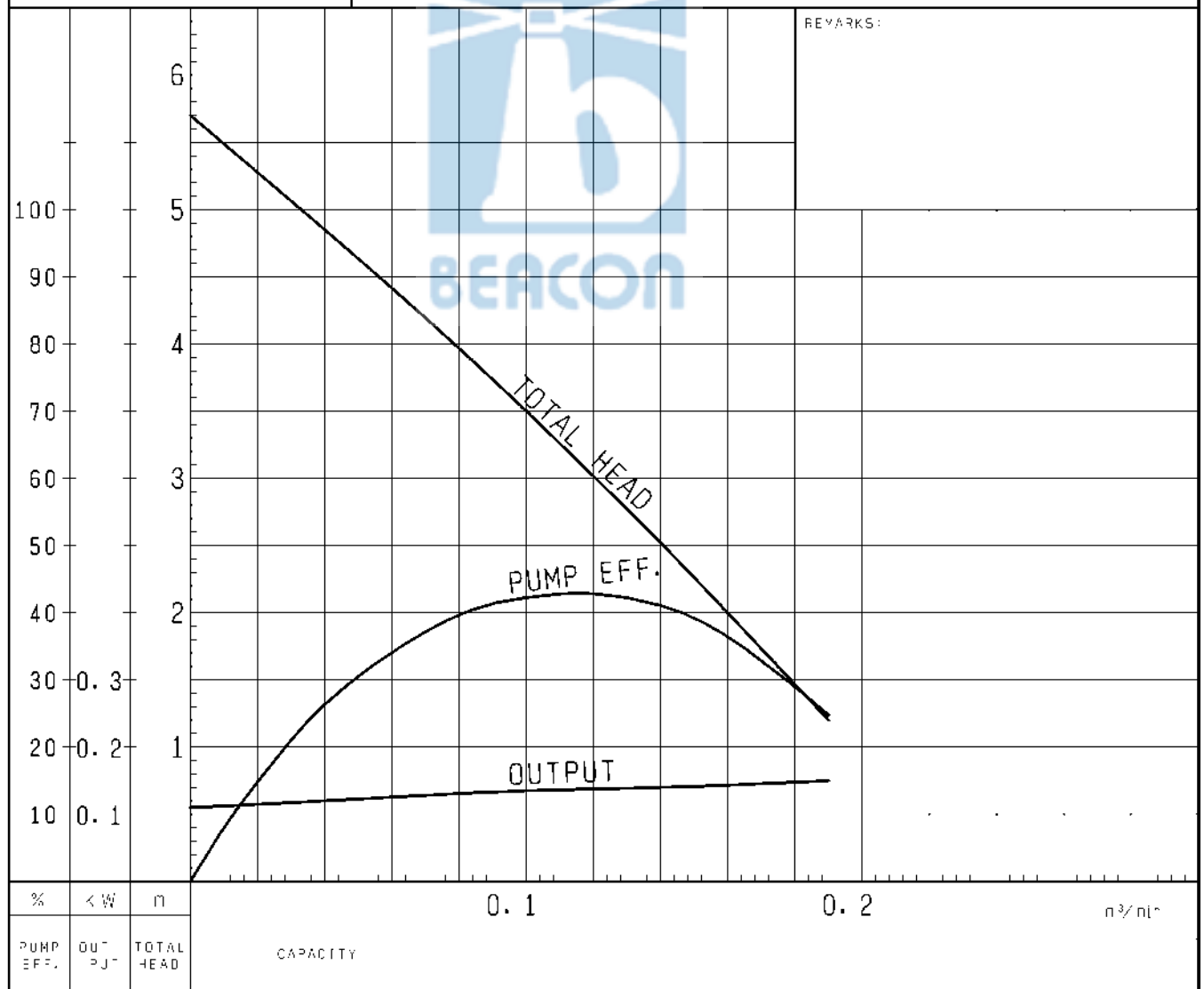
FREQUENCY 50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	40 mm	mm
TOTAL HEAD	MAX. 5.7 m	m
CAPACITY	MAX. 0.19 m ³ /min	m ³ /min
MOTOR OUTPUT	0.15 kW	kW
PHASE × VOLTAGE	1 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / S. S. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	CAPACITOR MOTOR	
INSULATION CLASS	E	

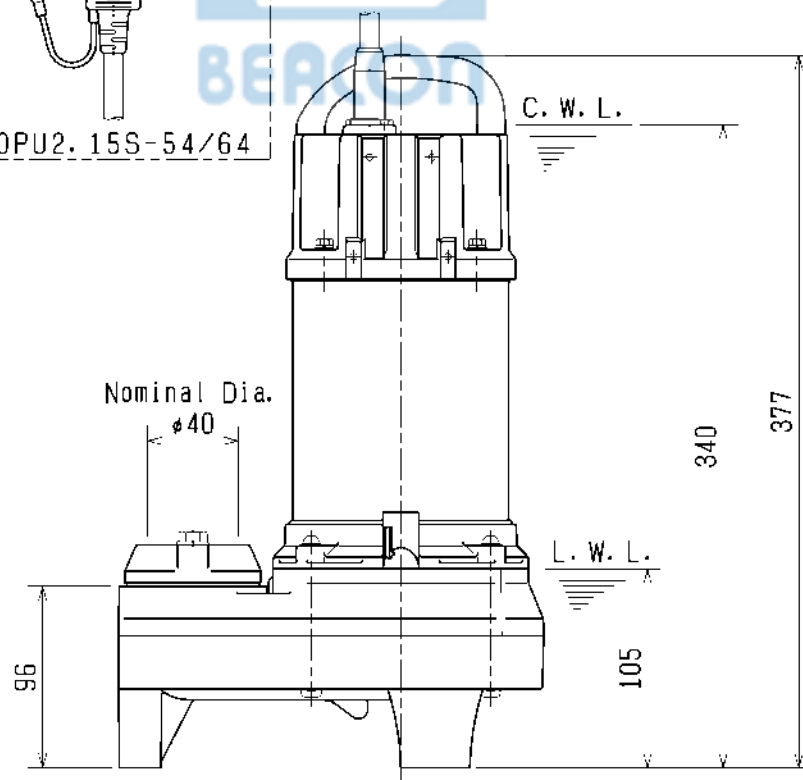
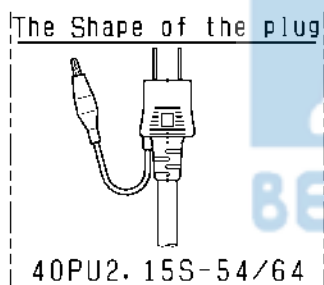
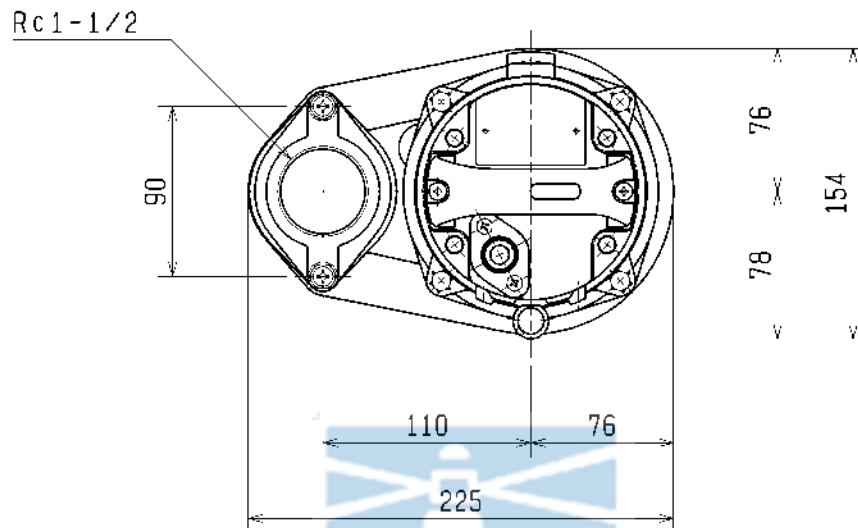


TSURUMI MFG. CO., LTD.

DIMENSION DRAWING		No.		No.	A-19550-2
TYPE	Submersible Vortex Sewage Pump	MODEL	40PU2.15S -54/64 40PU2.15 -53/63		

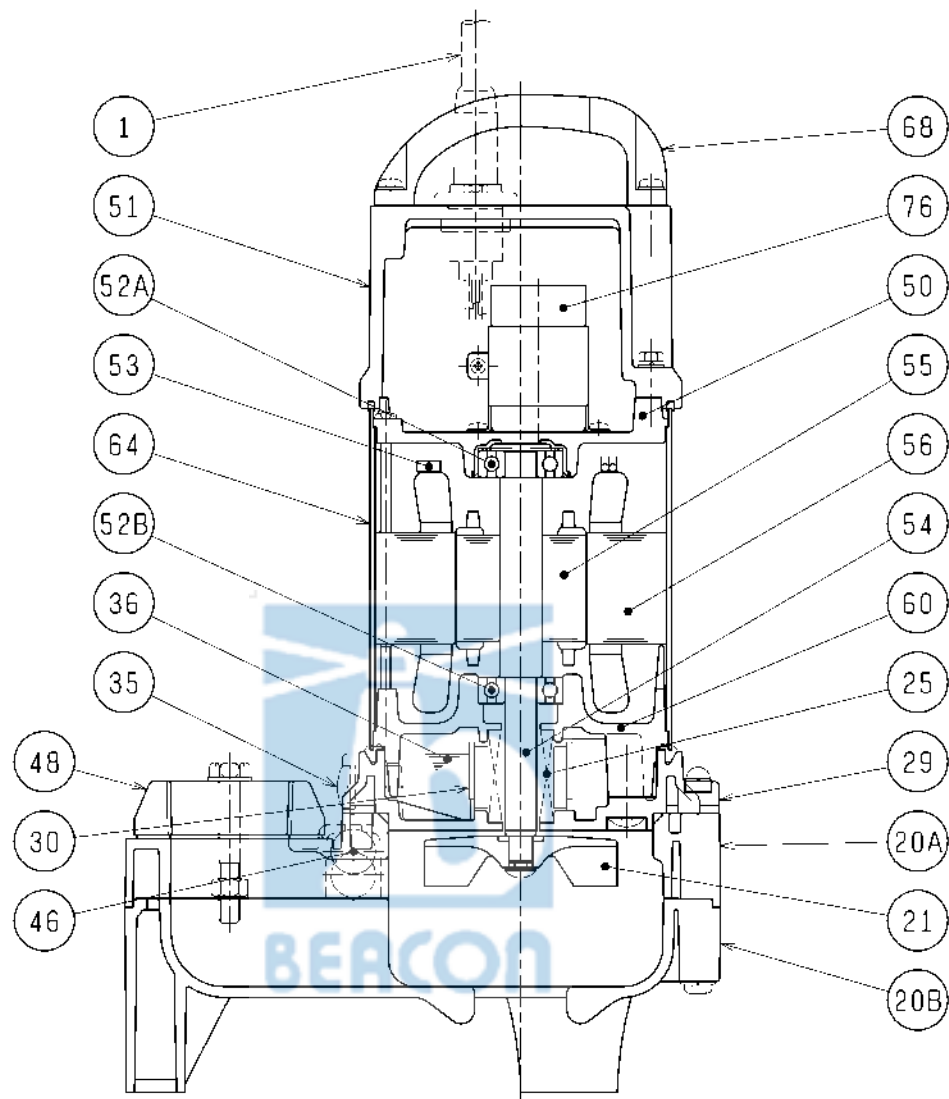
MODEL	Approximate Weight (kg)
40PU2.15S-54/64	6.1kg
40PU2.15 -53/63	5.6kg

*excluding cable



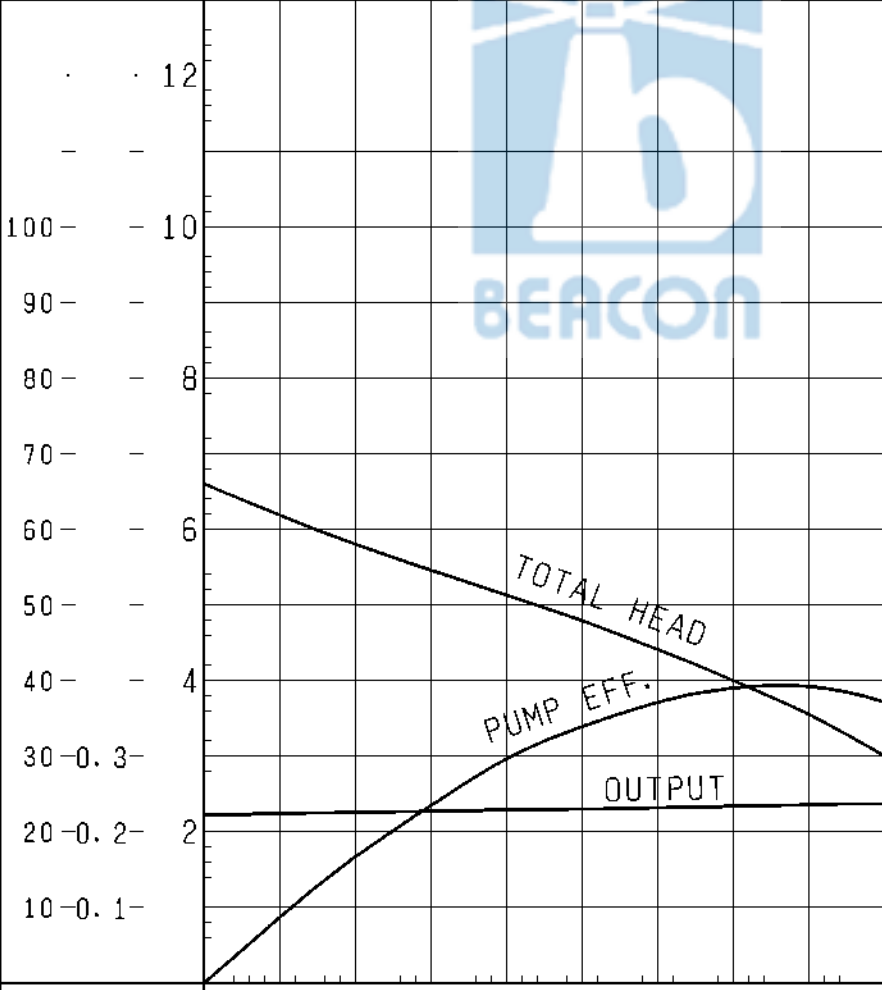
C.W.L.:Continuous running Water Level
L.W.L.:Lowest running Water Level

SECTIONAL DRAWING			No.	No.	A-19561-1
TYPE	Submersible Vortex Sewage Pump		MODEL	40PU2.15S -54/64	



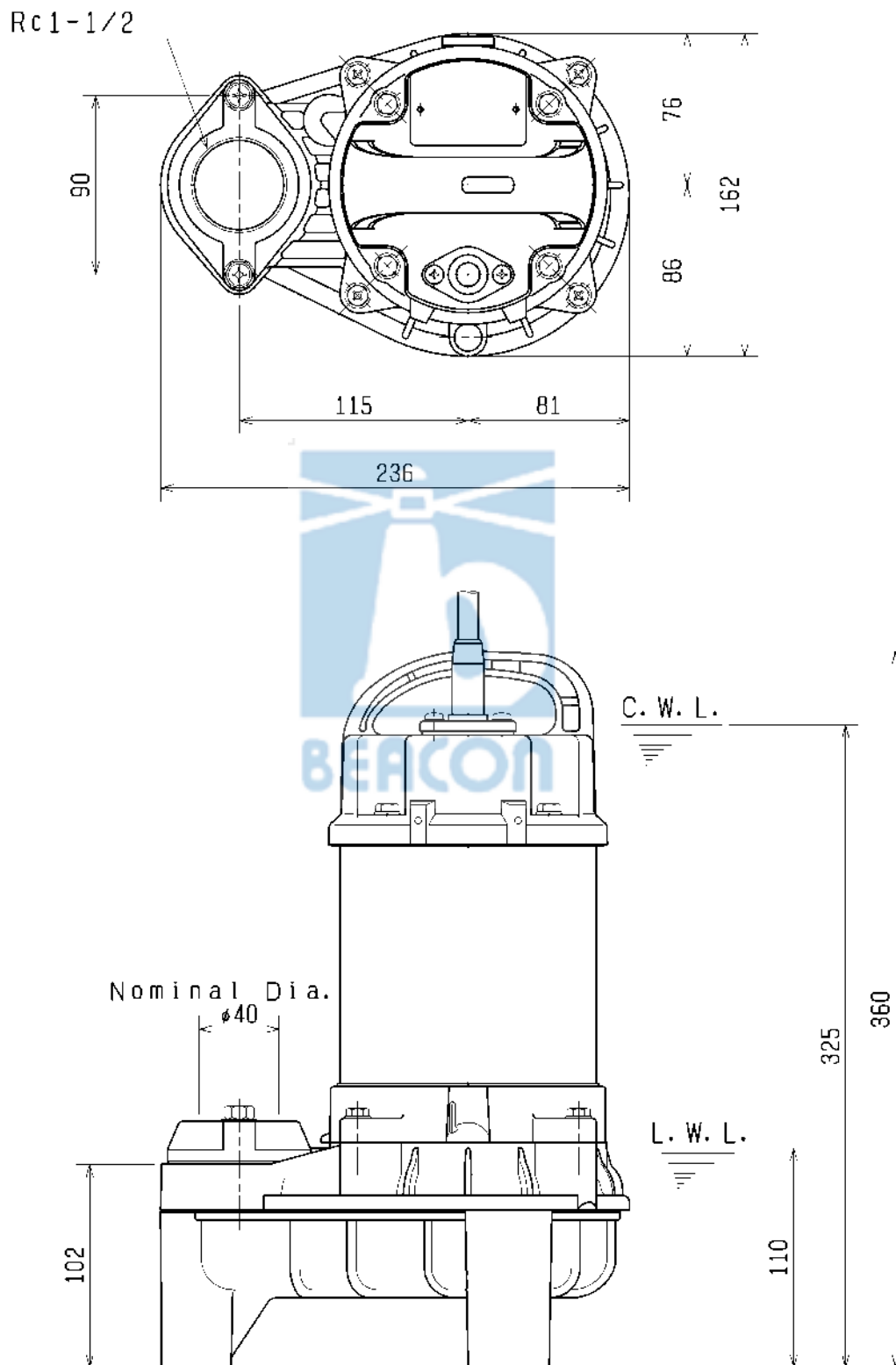
REQ. SPECIFICATION

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable Cable	1	PVC Sheath	52A	Upper Bearing	1	6201ZZC3
20A	Casing-upper Half	1	Plastic W/GF	52B	Lower Bearing	1	6201ZZC3
20B	Casing-lower Half	1	Plastic	53	Motor Protector	1	
21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 420J2
25	Mechanical Seal	1	D-12RC	55	Rotor	1	
29	Oil Casing	1	Plastic W/GF	56	Stator Complete	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Aluminium Die Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Stainless Steel 304
36	Lubricant		Liquid Paraffin (ISO VG32)	68	Handle	1	Plastic
46	Air Release Valve	1	Glass Ball	76	Capacitor	1	
48	Screwed Flange	1	Plastic				
50	Motor Bracket	1	Aluminium Die Casting				
51	Head Cover	1	Plastic W/GF				

		NO. A-09943-2	
PUMP PERFORMANCE CURVES			
TYPE	Sewage Submersible Vortex Pump	MODEL 40PU2.25S -52, 40PUA2.25S -52 40PUW2.25S -52	FREQUENCY 50 Hz
CUSTOMER'S NAME			
EQUIPMENT TITLE			
NO.			
	STANDARD SPECIFICATIONS		REQUIRED SPECIFICATIONS
DISCHARGE BORE	40 mm		mm
TOTAL HEAD	4.0 m		m
CAPACITY	0.14 m ³ /min		m ³ /min
MOTOR OUTPUT	0.25 kW		kW
PHASE × VOLTAGE	1 φ × V		φ × V
CURRENT	A		A
POLES / REVOLUTION	2 P / S. S. 3000 min ⁻¹		P / min ⁻¹
STARTING METHOD	CAPACITOR MOTOR		
INSULATION CLASS	E		
		REMARKS:	
% kW m	CAPACITY		
PUMP EFF. TOTAL HEAD	CAPACITY		
TSURUMI MFG. CO., LTD.			

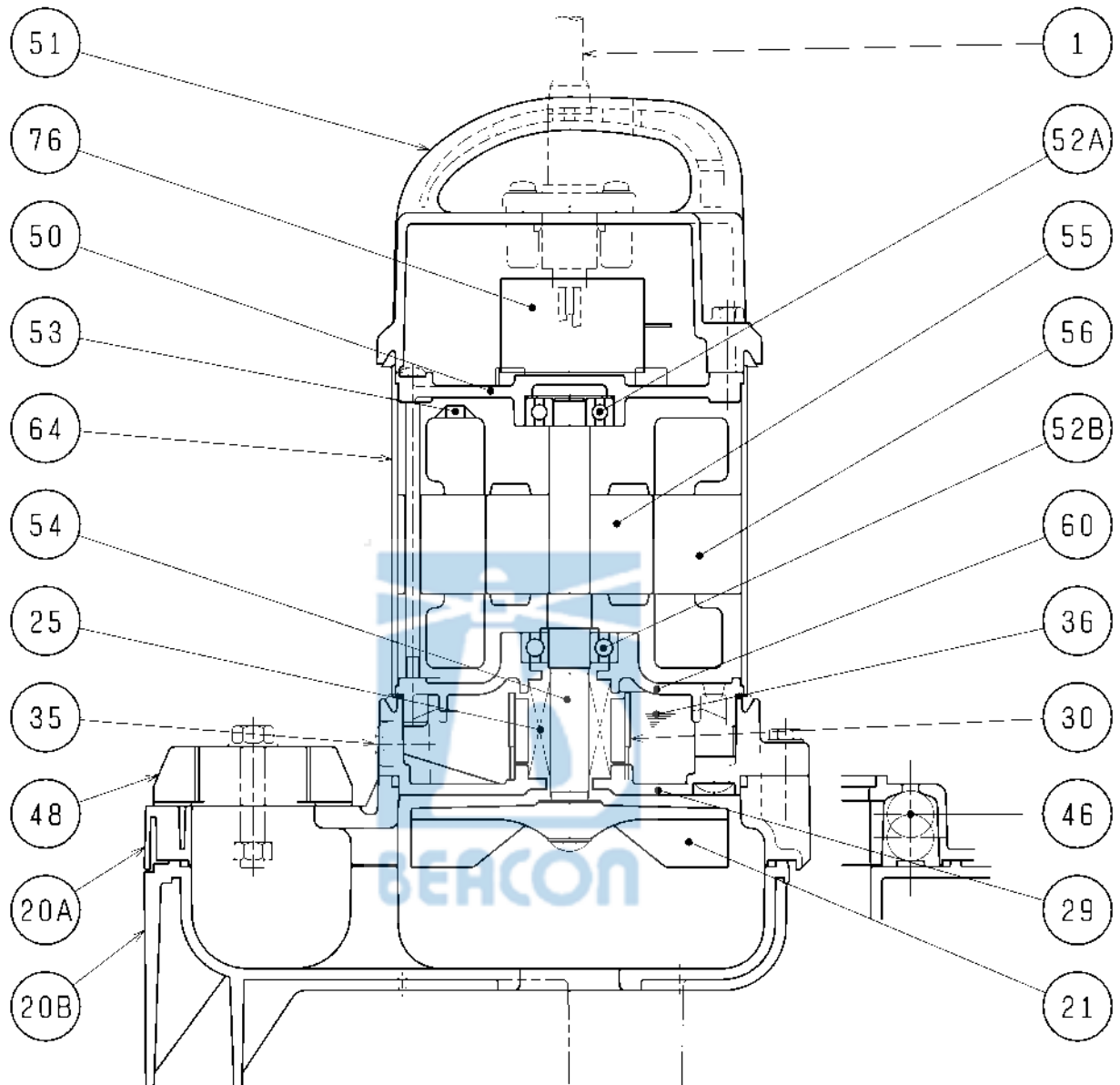
DIMENSION DRAWING			No.		No.	A-09973-2
TYPE	Sewage Submersible Vortex Pump		MODEL	40PU2.25S -52/62		

Approximate Weight (kg)
7.1kg
*excluding cable



L. W. L. : Lowest running Water Level
C. W. L. : Continuous running Water Level

SECTIONAL DRAWING		No.	No.	A-10019-4
TYPE Submersible Vortex Sewage Pump		MODEL	40PU2.25S -52/62 50PU2.4S -52/62	



REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	51	Head Cover	1	Plastic W/GF
20A	Upper Pump Casing *	1	Plastic W/GF	52A	Upper Bearing	1	6201ZZC3
20B	Lower Pump Casing	1	Plastic	52B	Lower Bearing	1	6202ZZC3
21	Impeller	1	Plastic W/GF	53	Motor Protector	1	
25	Mechanical Seal	1	W-14HC	54	Shaft	1	Stainless Steel 304
29	Oil Casing	1	Plastic W/GF	55	Rotor	1	
30	Oil Lifter	1	Plastic	56	Stator	1	
35	Oil Plug	1	Stainless Steel 304	60	Bearing Housing	1	Aluminium Die Casting
36	Lubricant		Liquid Paraffin (ISO VG32)	64	Motor Frame	1	Stainless Steel 304
46	Air Release Valve	1	Glass Ball	76	Capacitor	1	
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Die Casting				

NO.

A-09949-1

PUMP PERFORMANCE CURVES

TYPE Sewage
Submersible Vortex Pump

MODEL 50PU2.4 -52, 50PUA2.4 -52
50PUW2.4 -52

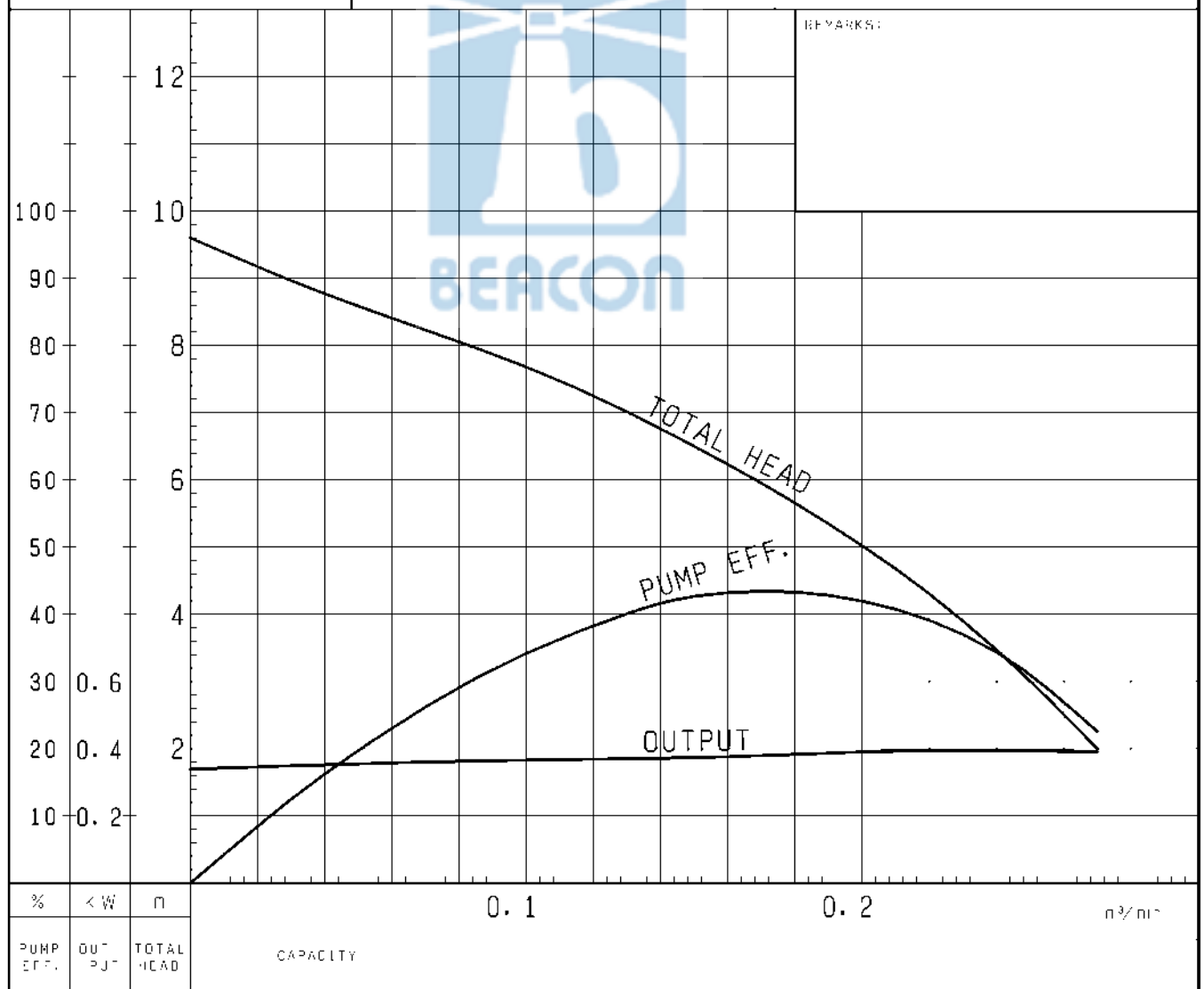
FREQUENCY
50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

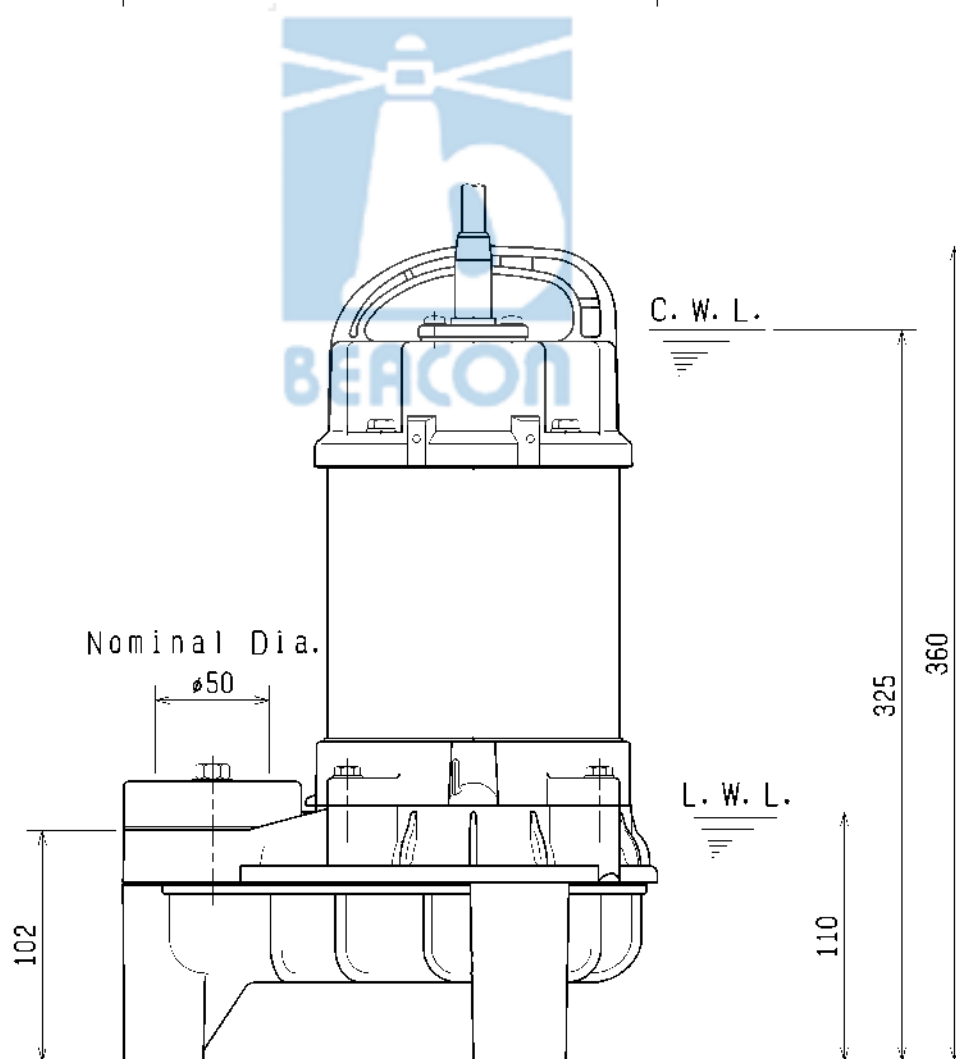
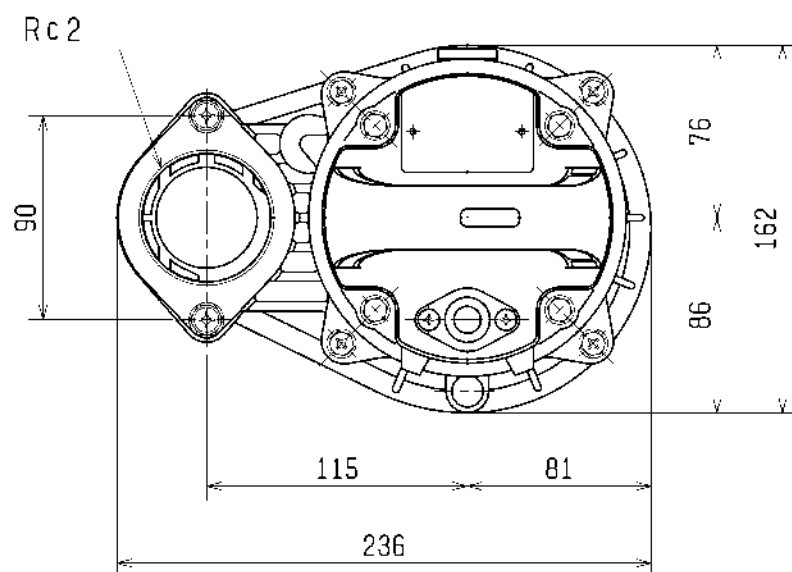
NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	6.5 m	m
CAPACITY	0.15 m ³ /min	m ³ /min
MOTOR OUTPUT	0.4 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / S. S. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	



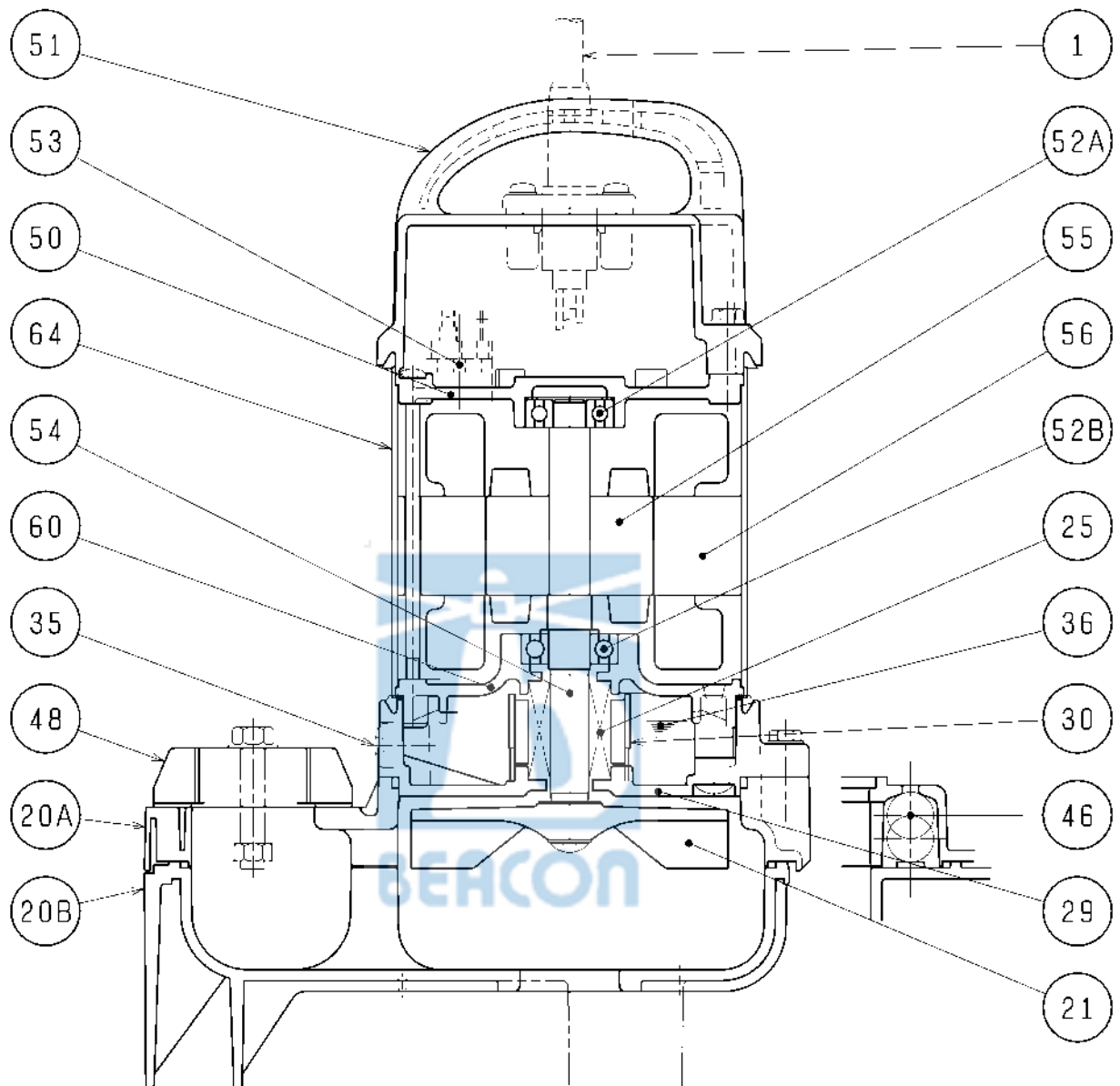
DIMENSION DRAWING			No.		No.	A-09983-2
TYPE	Sewage Submersible Vortex Pump		MODEL	50PU2.4 -52/62		

Approximate Weight (kg)
7kg
*excluding cable



L. W. L. : Lowest running Water Level
C. W. L. : Continuous running Water Level

SECTIONAL DRAWING			No.	No.	A-10022-3
TYPE	Sewage Submersible Vortex Pump	MODEL	40PU2.25 -52/62, 50PU2.25 -52/62 50PU2.4 -52/62 , 50PU2.75 -52/62		



REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	51	Head Cover	1	Plastic W/GF
20A	Upper Pump Casing	1	Plastic W/GF	52A	Upper Bearing	1	6201ZZC3
20B	Lower Pump Casing	1	Plastic	52B	Lower Bearing	1	0.25/0.4kW:6202ZZC3 0.75kW :6302ZZC3
21	Impeller	1	Plastic W/GF	53	Motor Protector	1	
25	Mechanical Seal	1	W-14HC	54	Shaft	1	Stainless Steel 304
29	Oil Casing	1	Plastic W/GF	55	Rotor	1	
30	Oil Lifter	1	Plastic	56	Stator	1	
35	Oil Plug	1	Stainless Steel 304	60	Bearing Housing	1	Aluminium Die Casting
36	Lubricant		Liquid Paraffin (ISO VG32)	64	Motor Frame	1	Stainless Steel 304
46	Air Release Valve	1	Glass Ball				
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Die Casting				

NO.

A-09947-2

PUMP PERFORMANCE CURVES

TYPE Sewage
Submersible Vortex Pump

MODEL 50PU2.4S -52, 50PUA2.4S -52
50PUW2.4S -52

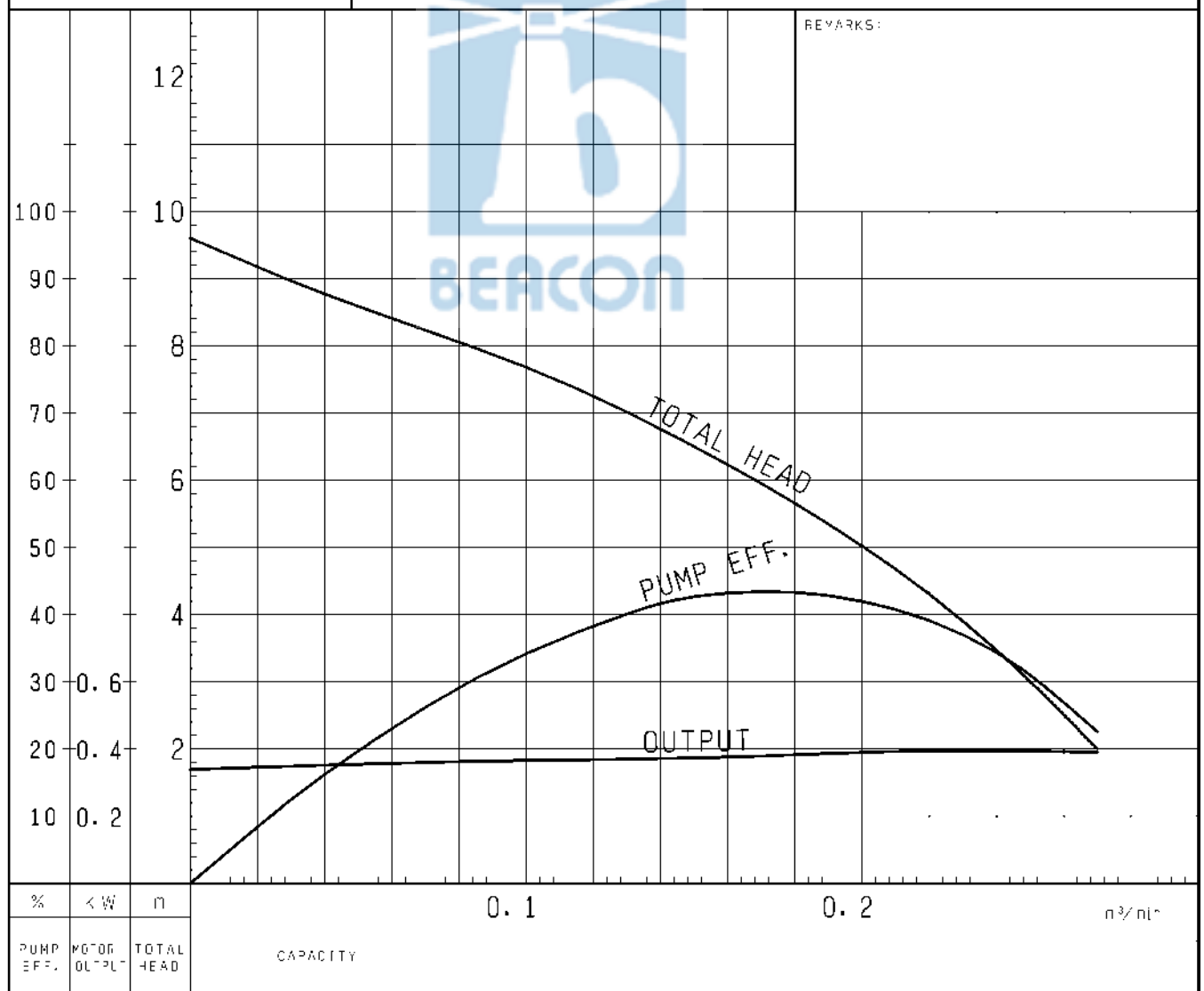
FREQUENCY
50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

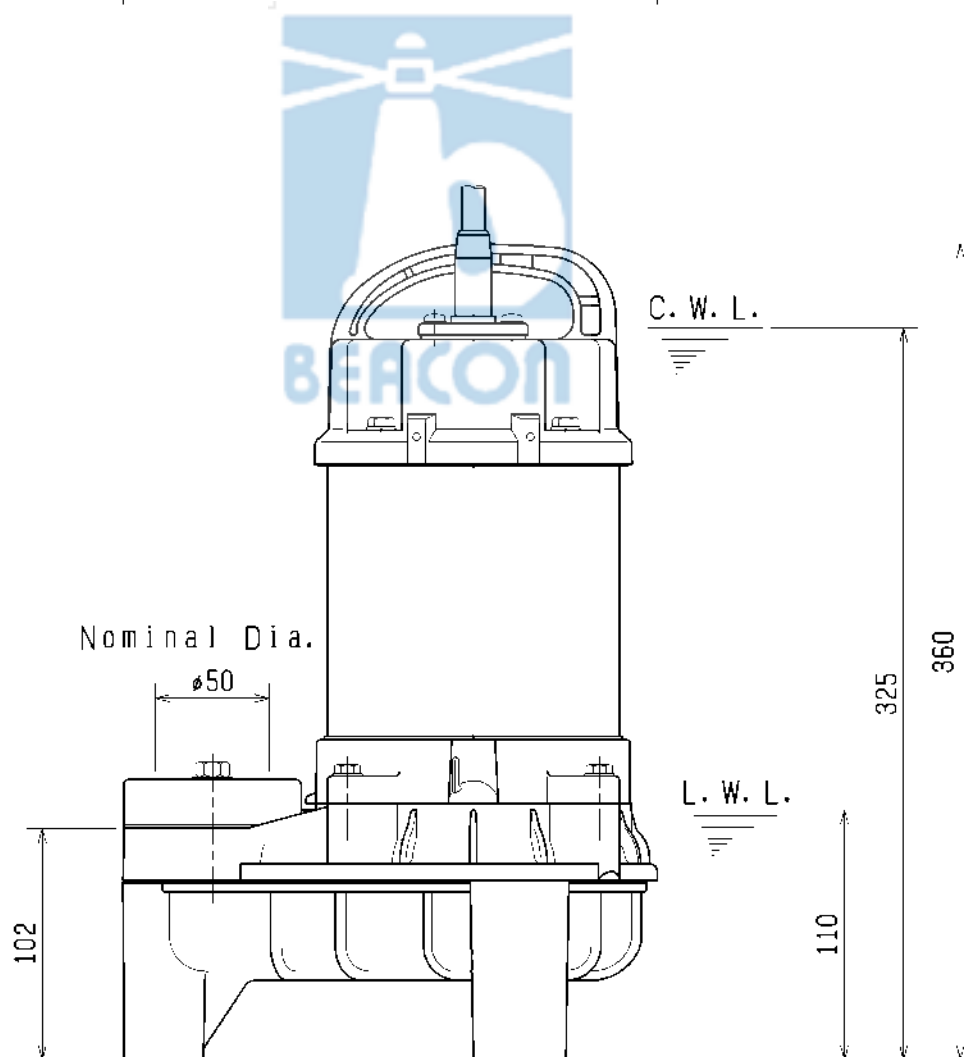
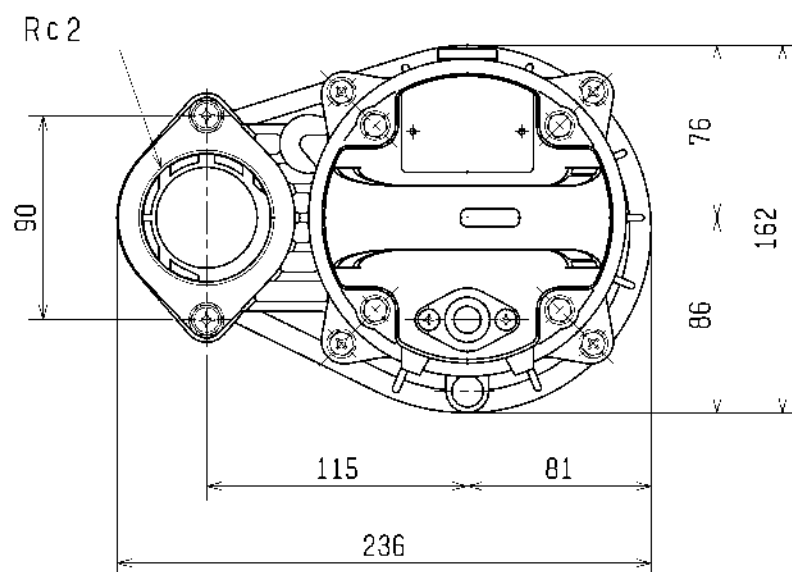
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	6.5 m	m
CAPACITY	0.15 m ³ /min	m ³ /min
MOTOR OUTPUT	0.4 kW	kW
PHASE × VOLTAGE	1 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	CAPACITOR MOTOR	
INSULATION CLASS	E	



TSURUMI MFG. CO., LTD.

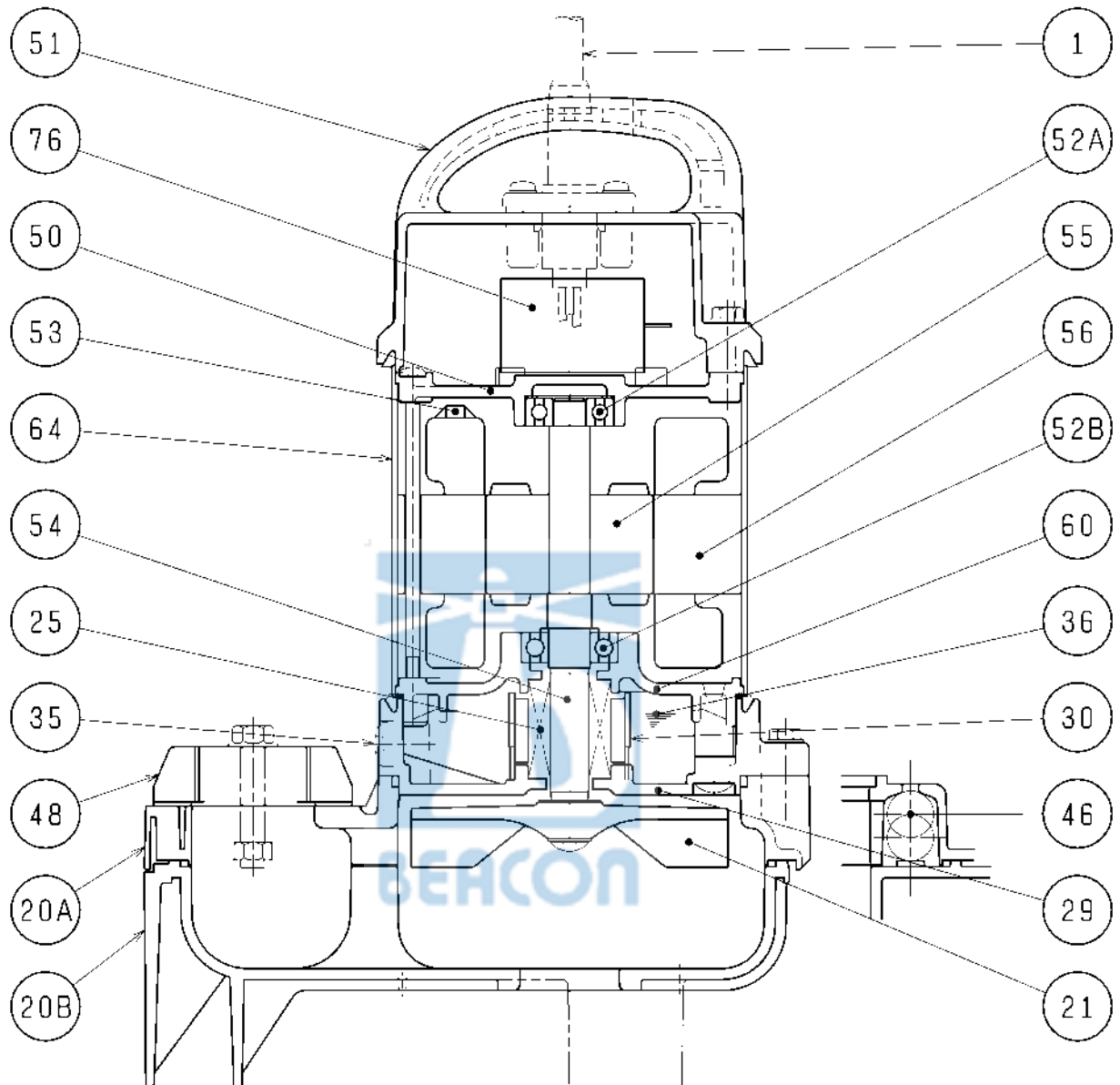
DIMENSION DRAWING		No.	No.	A-09980-2
TYPE	Sewage Submersible Vortex Pump	MODEL	50PU2.4S -52/62	

Approximate Weight (kg)
7.1kg
*excluding cable



L.W.L. : Lowest running Water Level
C.W.L. : Continuous running Water Level

SECTIONAL DRAWING		No.	No.	A-10019-4
TYPE Submersible Vortex Sewage Pump		MODEL	40PU2.25S -52/62 50PU2.4S -52/62	



REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cabletyre Cable	1	PVC Sheath	51	Head Cover	1	Plastic W/GF
20A	Upper Pump Casing *	1	Plastic W/GF	52A	Upper Bearing	1	6201ZZC3
20B	Lower Pump Casing	1	Plastic	52B	Lower Bearing	1	6202ZZC3
21	Impeller	1	Plastic W/GF	53	Motor Protector	1	
25	Mechanical Seal	1	W-14HC	54	Shaft	1	Stainless Steel 304
29	Oil Casing	1	Plastic W/GF	55	Rotor	1	
30	Oil Lifter	1	Plastic	56	Stator	1	
35	Oil Plug	1	Stainless Steel 304	60	Bearing Housing	1	Aluminium Die Casting
36	Lubricant		Liquid Paraffin (ISO VG32)	64	Motor Frame	1	Stainless Steel 304
46	Air Release Valve	1	Glass Ball	76	Capacitor	1	
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Die Casting				

TYPE	Sewage Submersible Vortex Pump	MODEL 50PU2.75 -52, 50PUA2.75 -52 50PUW2.75 -52	FREQUENCY 50 Hz
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NO.

The graph displays the performance characteristics of a pump. The vertical axis (Y-axis) has two scales: Head in meters (m) ranging from 0 to 12, and Efficiency in percent (%) ranging from 0 to 100. The horizontal axis (X-axis) represents Capacity in cubic meters per minute (m³/min), ranging from 0 to 0.6. Three curves are plotted: 'TOTAL HEAD' (a downward-sloping curve starting at approximately 12.5 m at 0 capacity), 'PUMP EFF.' (a curve that rises to a peak of about 45% efficiency at 0.25 m³/min before declining), and 'OUTPUT' (an upward-sloping curve starting at 0 and reaching about 25% at 0.35 m³/min). A 'REMARKS' section is located in the top right corner of the graph area.

%	W	n
PUMP EFF.	OUT PUMP	TOTAL HEAD

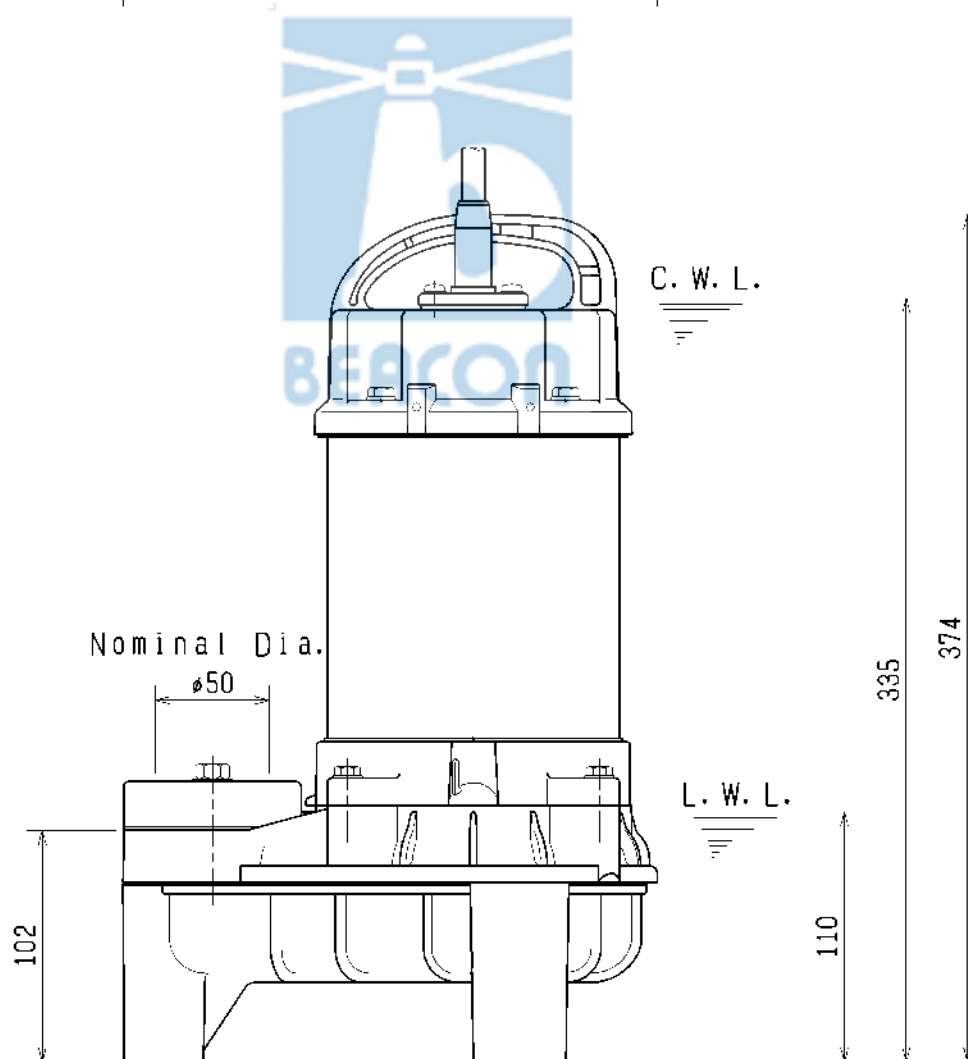
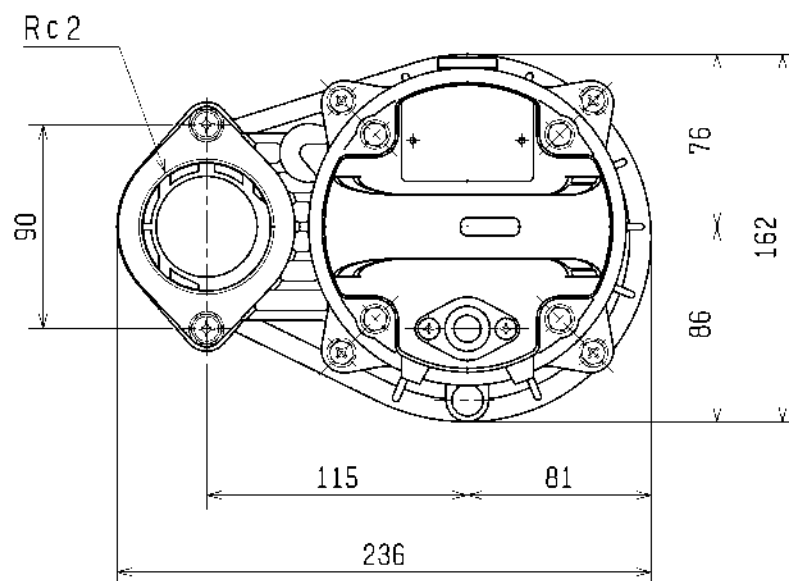
CAPACITY

TSURUMI MFG. CO., LTD.

DIMENSION DRAWING			No.		No.	A-09986-2
TYPE	Sewage Submersible Vortex Pump		MODEL	50PU2.75 -52/62		

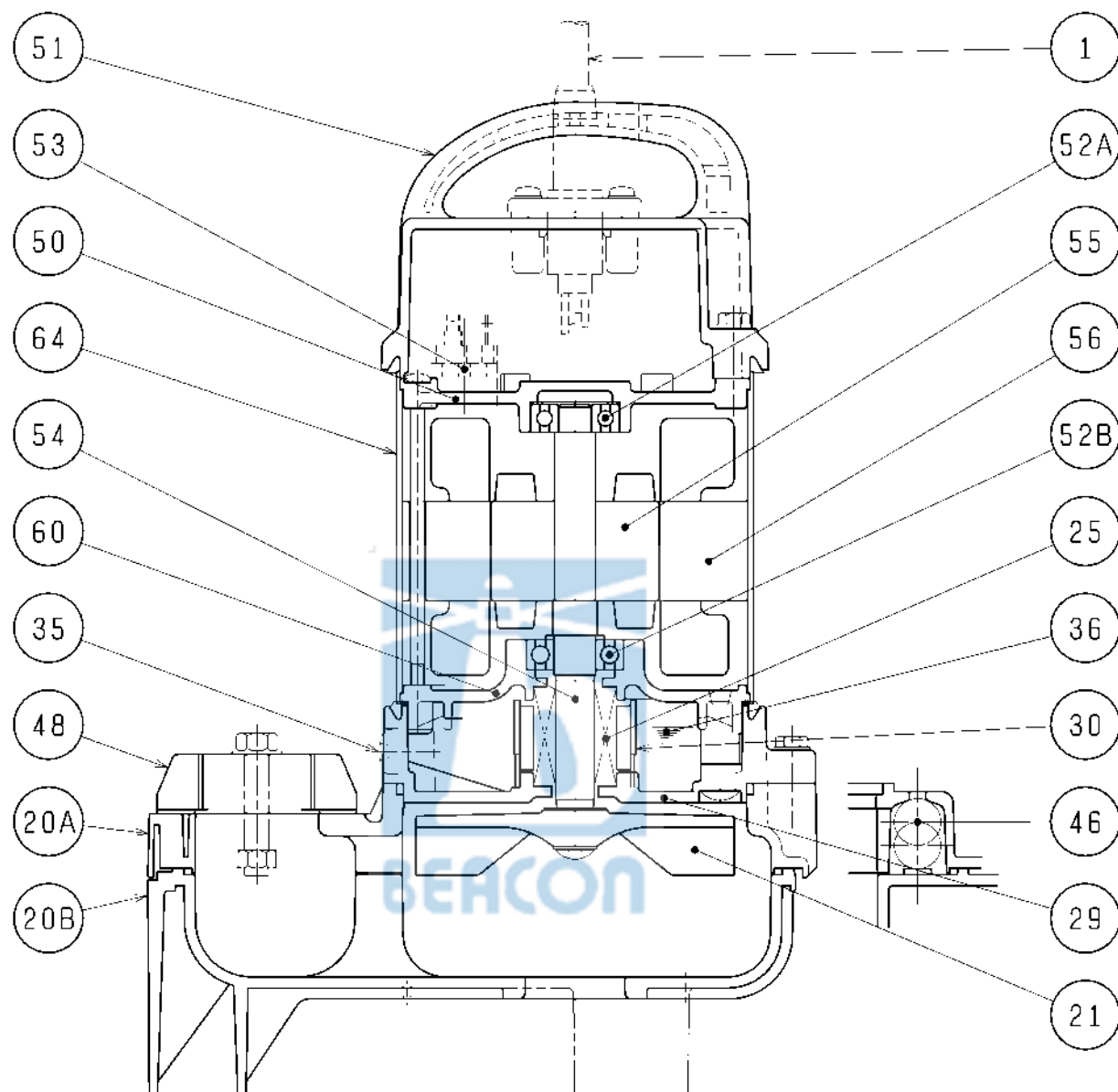
Approximate Weight (kg)
8.3kg

*excluding cable



L. W. L. : Lowest running Water Level
C. W. L. : Continuous running Water Level

SECTIONAL DRAWING			No.	No.	A-10022-3
TYPE	Sewage Submersible Vortex Pump	MODEL	40PU2.25 -52/62, 50PU2.25 -52/62 50PU2.4 -52/62, 50PU2.75 -52/62		



REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	51	Head Cover	1	Plastic W/GF
20A	Upper Pump Casing	1	Plastic W/GF	52A	Upper Bearing	1	6201ZZC3
20B	Lower Pump Casing	1	Plastic	52B	Lower Bearing	1	0.25/0.4kW:6202ZZC3 0.75kW :6302ZZC3
21	Impeller	1	Plastic W/GF	53	Motor Protector	1	
25	Mechanical Seal	1	W-14HC	54	Shaft	1	Stainless Steel 304
29	Oil Casing	1	Plastic W/GF	55	Rotor	1	
30	Oil Lifter	1	Plastic	56	Stator	1	
35	Oil Plug	1	Stainless Steel 304	60	Bearing Housing	1	Aluminium Die Casting
36	Lubricant		Liquid Paraffin (ISO VG32)	64	Motor Frame	1	Stainless Steel 304
46	Air Release Valve	1	Glass Ball				
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Die Casting				

NO.

A-10475-2

PUMP PERFORMANCE CURVES

TYPE Sewage
Submersible Vortex Pump

MODEL 50PU2.75S -52
50PUA2.75S -52

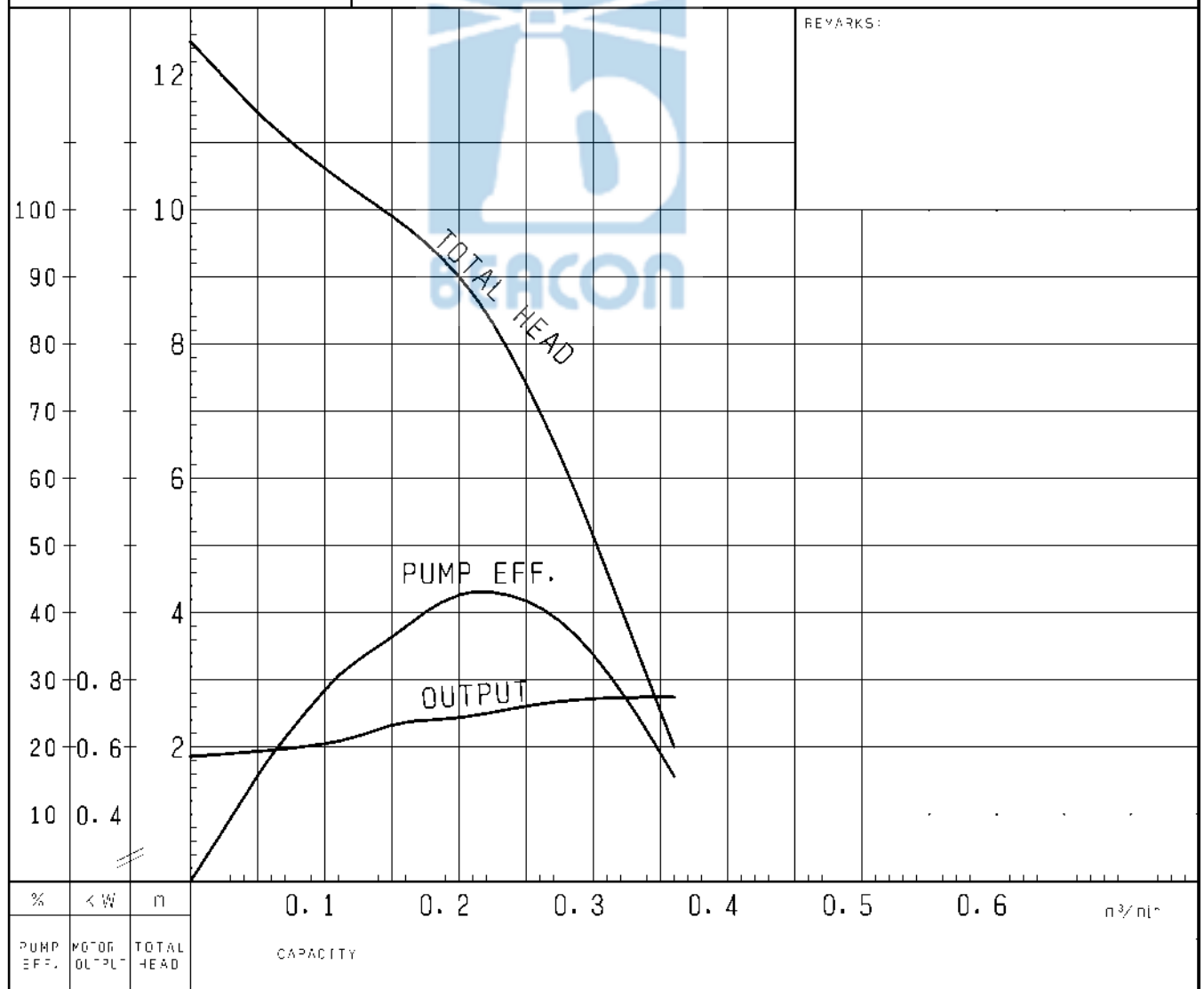
FREQUENCY
50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

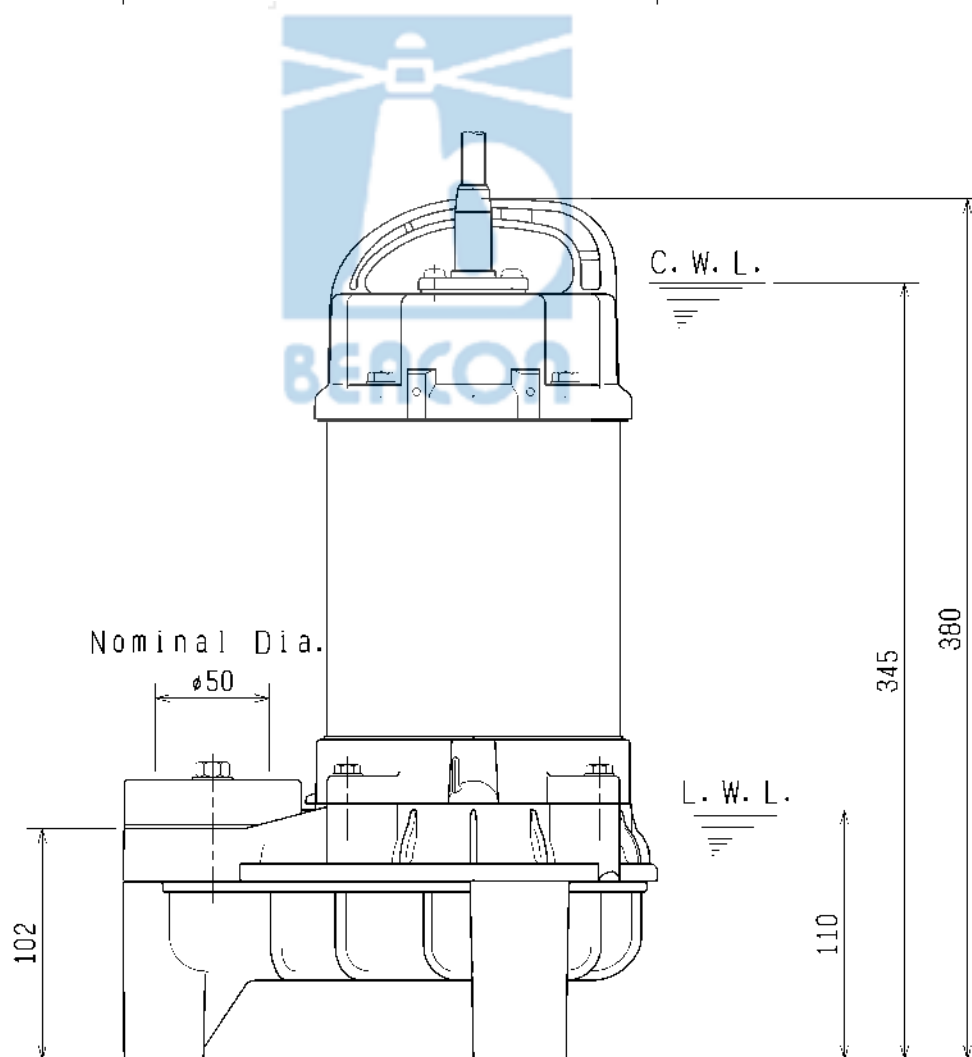
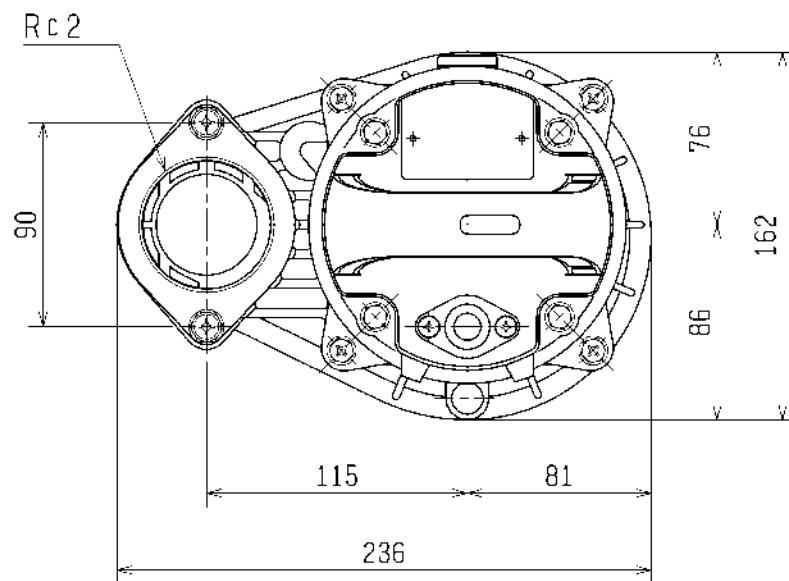
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	9.0 m	m
CAPACITY	0.2 m ³ /min	m ³ /min
MOTOR OUTPUT	0.75 kW	kW
PHASE × VOLTAGE	1 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	CAPACITOR MOTOR	
INSULATION CLASS	E	



TSURUMI MFG. CO., LTD.

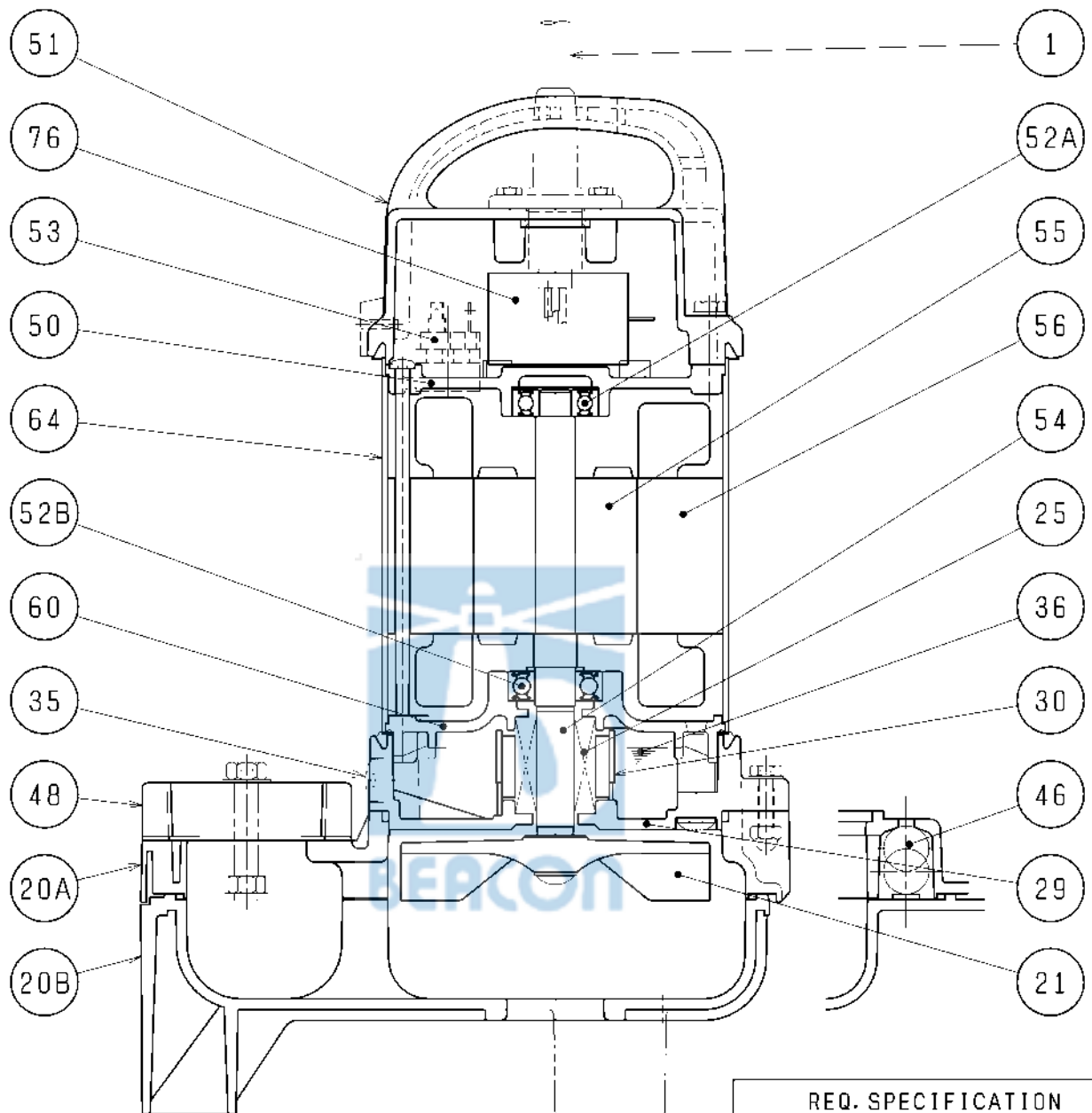
DIMENSION DRAWING		No.		No.	A-10477-2
TYPE	Sewage Submersible Vortex Pump	MODEL	50PU2.75S -52/62		

Approximate Weight (※)
8.9kg
※excluding cable



L.W.L. : Lowest running Water Level
C.W.L. : Continuous running Water Level

SECTIONAL DRAWING		No.	No.	A-17606-2
TYPE Submersible Vortex Sewage Pump		MODEL 50PU2.75S -52/62		



REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52A	Upper Bearing	1	6201ZZC3
20A	Upper Pump Casing	1	Plastic W/GF	52B	Lower Bearing	1	6302ZZC3
20B	Lower Pump Casing	1	Plastic	53	Motor Protector	1	
21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304
25	Mechanical Seal	1	W-14HC	55	Rotor	1	
29	Oil Casing	1	Plastic W/GF	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Aluminium Die Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Stainless Steel 304
36	Lubricant		Liquid Paraffin (ISO VG32)	76	Capacitor	1	
46	Air Release Valve	1	Glass Ball				
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Die Casting				
51	Head Cover	1	Plastic W/GF				

NO.

A-18338-1

PUMP PERFORMANCE CURVES

TYPE Sewage
Submersible Vortex Pump

MODEL 80PU (A/W) 21.5 -52

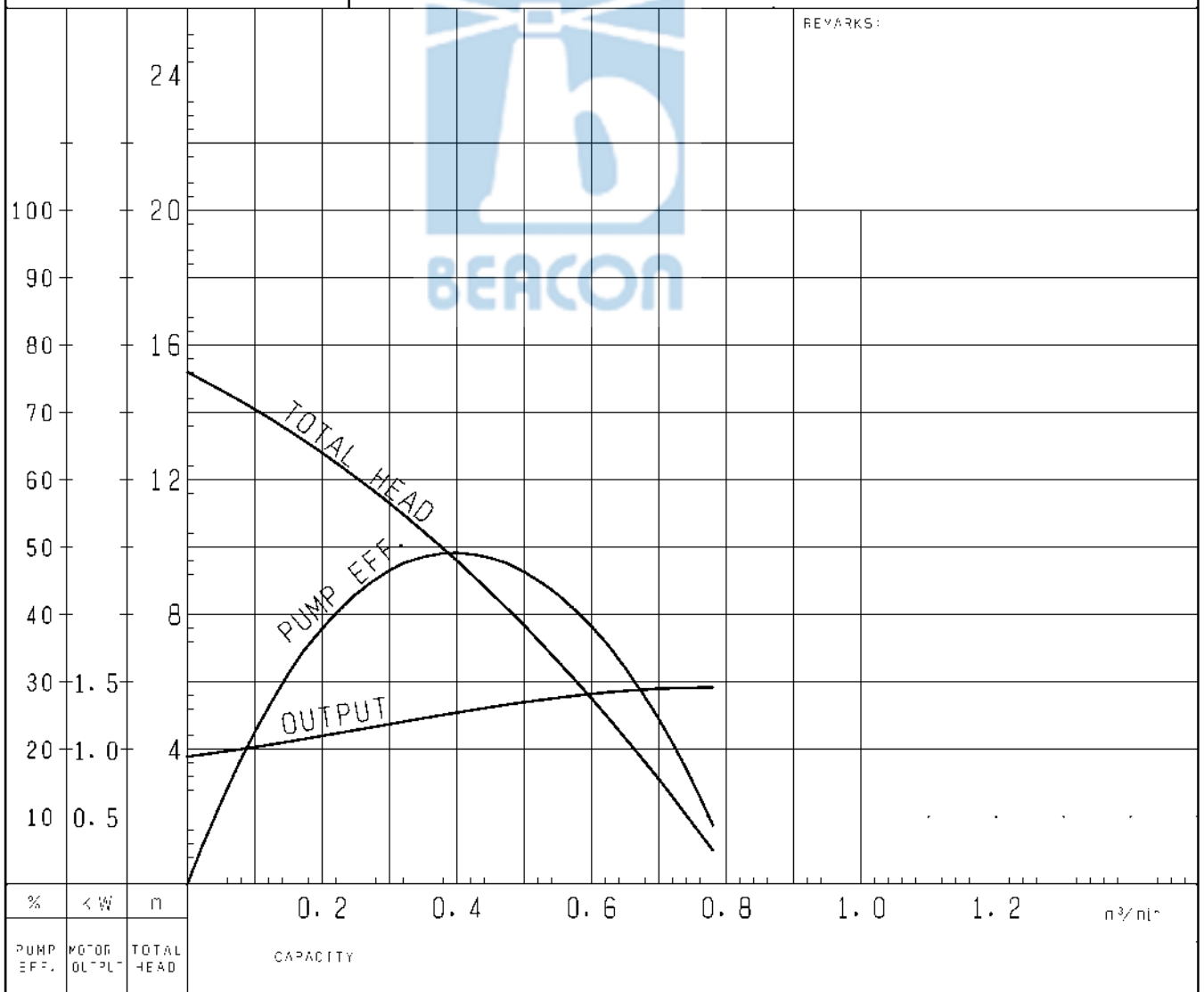
FREQUENCY
50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

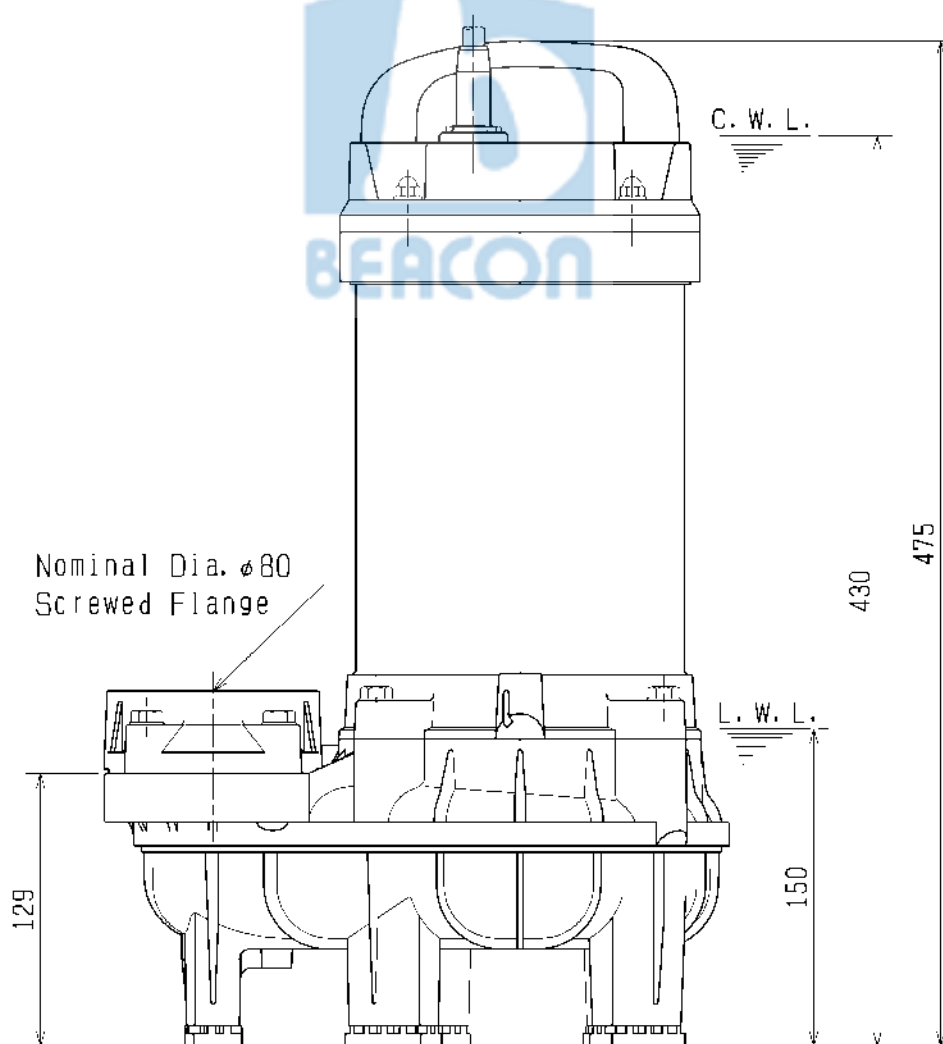
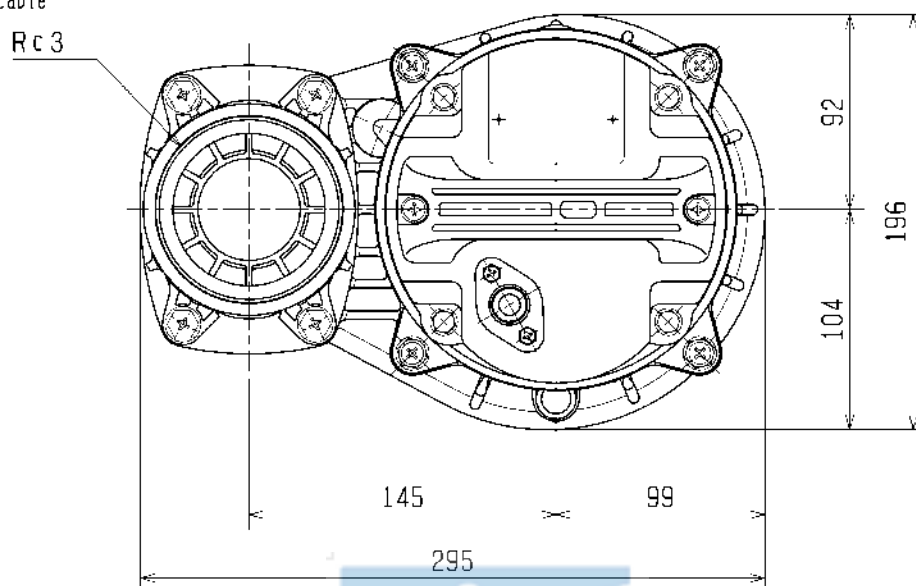
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	9.5 m	m
CAPACITY	0.4 m ³ /min	m ³ /min
MOTOR OUTPUT	1.5 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / S. S. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	



DIMENSION DRAWING		No.	No.	A-18340-1
TYPE	Sewage Submersible Vortex Pump	MODEL	80PU21.5 -52/62	

Approximate Weight(※)
16.0kg

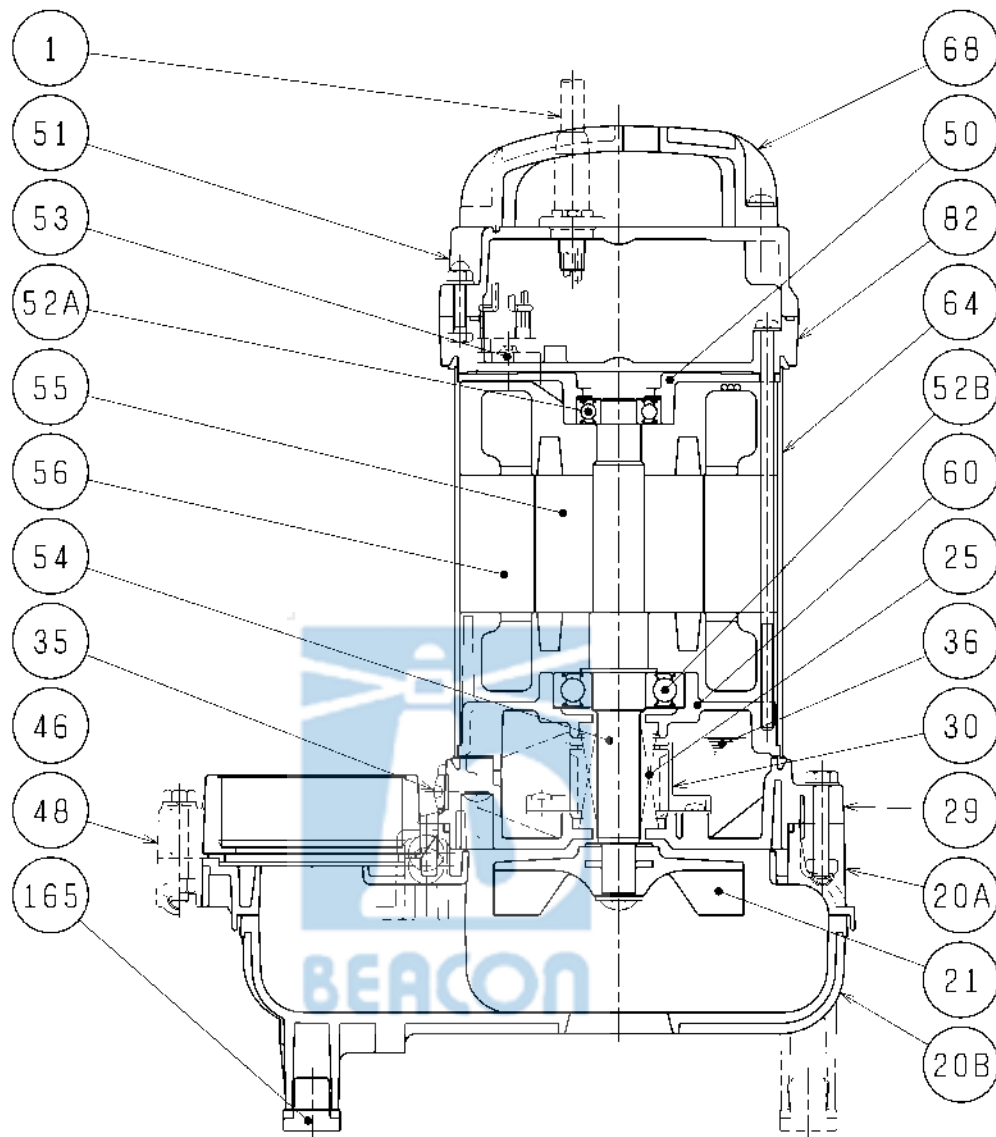
※excluding cable



C.W.L. :Continuous running Water Level

L.W.L. :Lowest running Water Level

SECTIONAL DRAWING			No.	No.	A-18343-1
TYPE	Sewage Submersible Vortex Pump		MODEL	80PU21.5 -52/62	



※1 Upper and lower blocks form a one-piece casing.

※2 the wetted part

REQ. SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52A	Upper Bearing	1	6203ZZC3
20A	Upper Pump Casing	※1	Plastic W/GF	52B	Lower Bearing	1	6305ZZC3
20B	Lower Pump Casing	1	Plastic W/GF	53	Motor Protector	1	
21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304(※2)
25	Mechanical Seal	1	H-20A	55	Rotor	1	
29	Oil Casing	1	Plastic W/GF	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Aluminium Alloy Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Stainless Steel 304
36	Lubricant		Liquid Paraffin (ISO VG32)	68	Handle	1	Plastic
46	Air Release Valve	1	Glass Ball	82	Head Cover Spacer	1	Plastic W/GF
48	Screwed Flange	1	Plastic W/GF	165	Rubber Foot	5	Nitrile Butadien Rubber
50	Motor Bracket	1	Aluminium Alloy Casting				
51	Head Cover	1	Plastic W/GF				

NO.

A-20157-1

PUMP PERFORMANCE CURVES

TYPE Sewage
Submersible Vortex Pump

MODEL 80PU (A/W) 22.2 -51

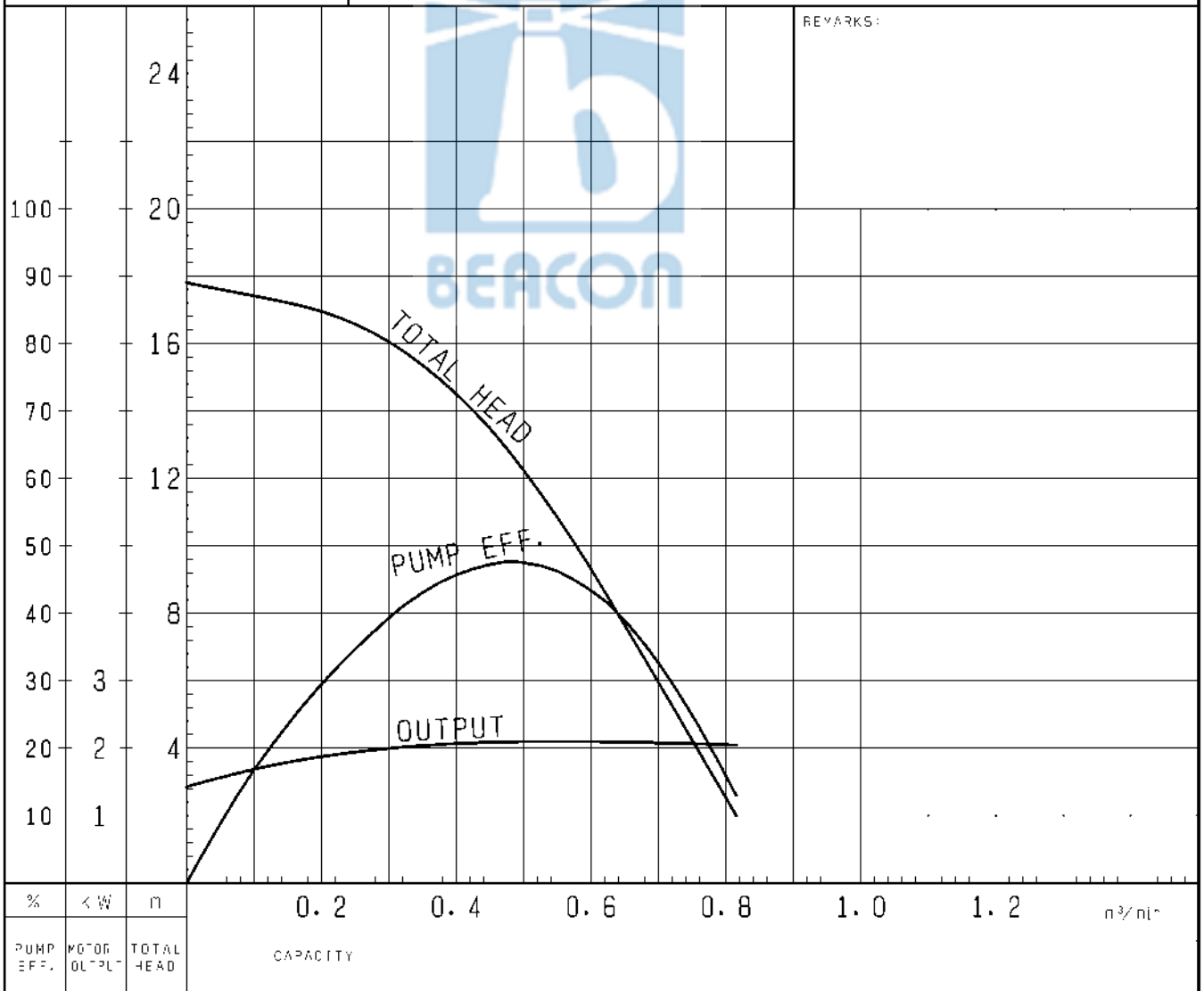
FREQUENCY
50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	Max. 17.8 m	m
CAPACITY	Max. 0.81 m ³ /min	m ³ /min
MOTOR OUTPUT	2.2 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	



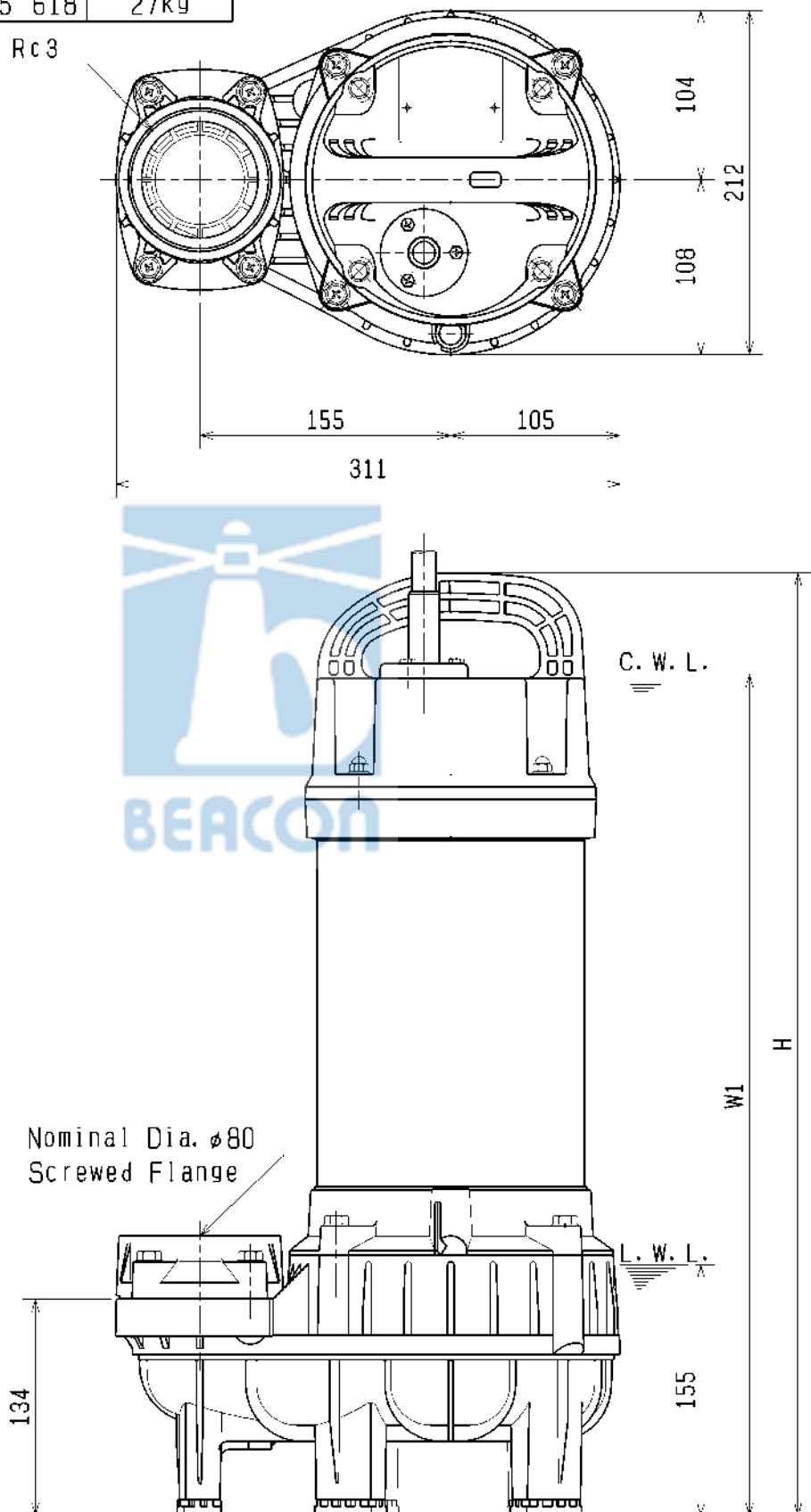
TSURUMI MFG. CO., LTD.

DIMENSION DRAWING			No.	No.	A-20161-1
TYPE	Sewage Submersible Vortex Pump		MODEL	80PU22.2 -51/61 80PU23.7 -51/61	

MODEL	W1	H	Approximate Weight (kg)
80PU22.2-51/61	520	583	22kg
80PU23.7-51/61	555	618	27kg

*excluding cable

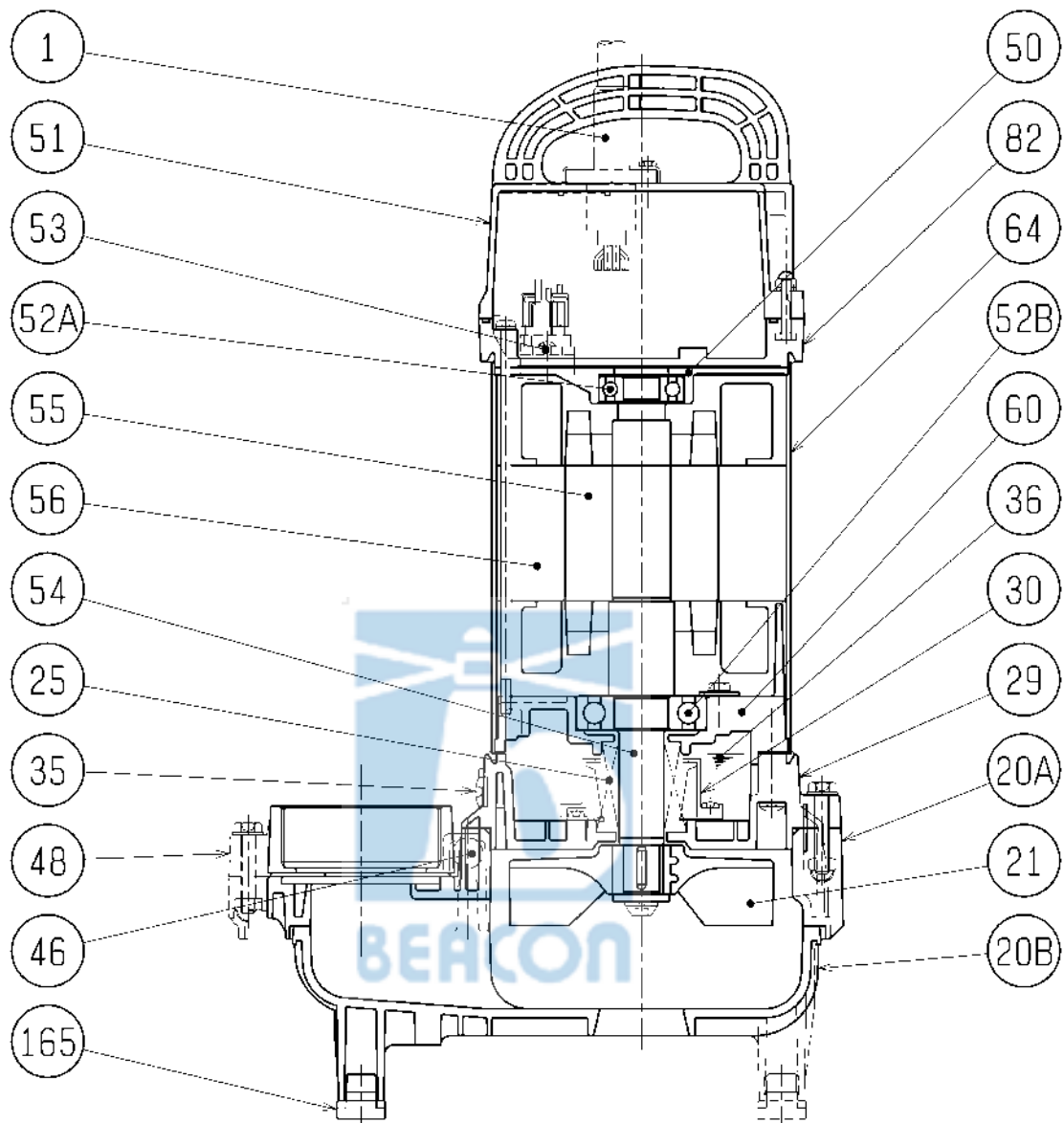
Rc3



C.W.L. :Continuous running Water Level

L.W.L. :Lowest running Water Level

SECTIONAL DRAWING		No.	No.	A-20164-1
TYPE	Sewage Submersible Vortex Pump	MODEL	80PU22.2 -51/61 80PU23.7 -51/61	



REQ. SPECIFICATION

*1 Upper and lower blocks form a one-piece casing.

*2 the wetted part

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52A	Upper Bearing	1	6204ZZC3
20A	Upper Pump Casing	*1	Plastic W/GF	52B	Lower Bearing	1	6306ZZC3
20B	Lower Pump Casing	1	Plastic W/GF	53	Motor Protector	1	
21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304(*2)
25	Mechanical Seal	1	H-25AT	55	Rotor	1	
29	Oil Casing	1	Plastic W/GF	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Aluminium Alloy Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Stainless Steel 304
36	Lubricant		Liquid Paraffin (ISO VG32)	82	Head Cover Spacer	1	Plastic W/GF
46	Air Release Valve	1	Glass Ball	165	Rubber Foot	5	Nitrile Butadien Rubber
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Alloy Casting				
51	Head Cover	1	Plastic W/GF				

NO.

A-20159-1

PUMP PERFORMANCE CURVES

TYPE Sewage
Submersible Vortex Pump

MODEL 80PU (A/W) 23.7 -51

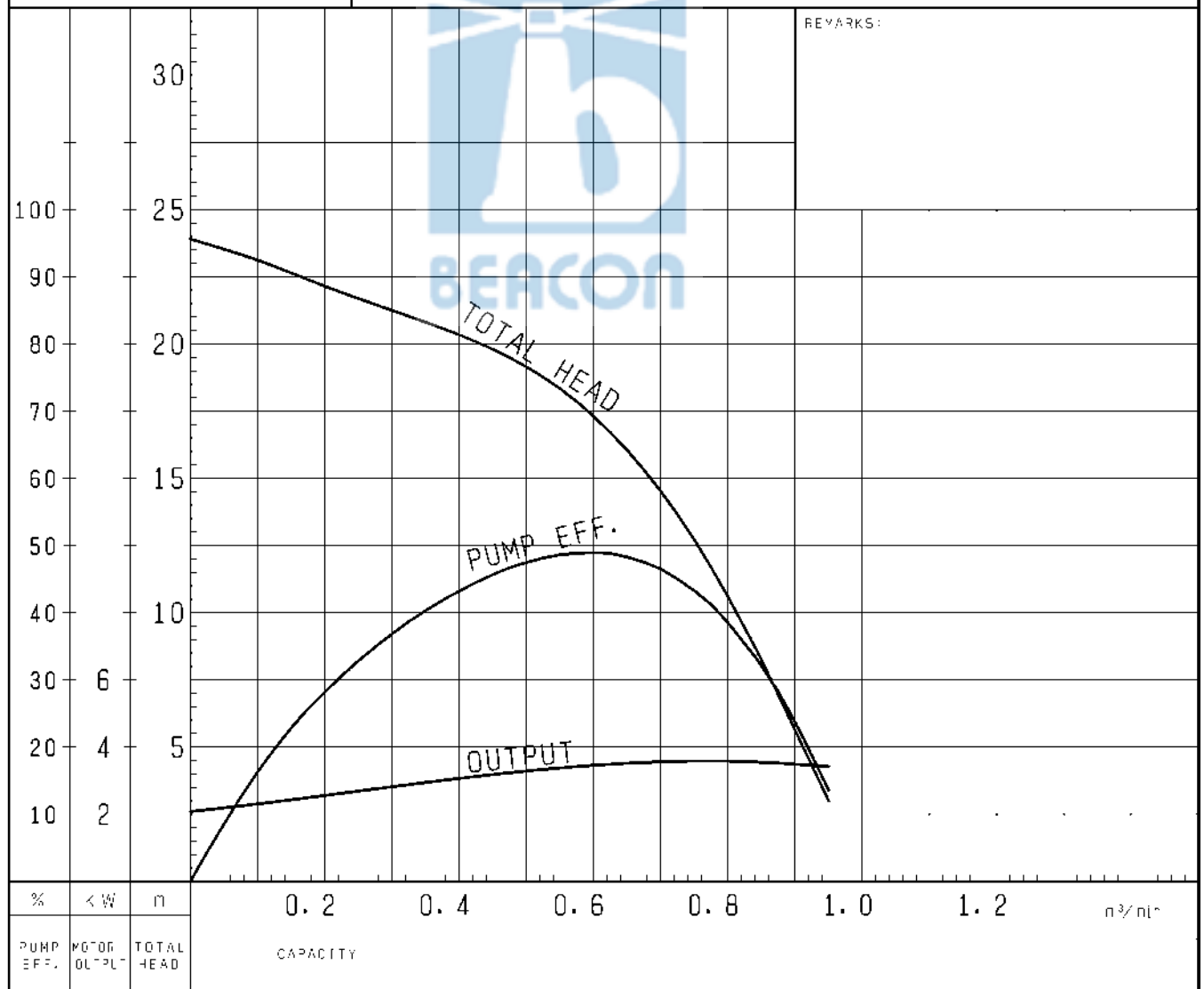
FREQUENCY
50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	Max. 23.9 m	m
CAPACITY	Max. 0.95 m ³ /min	m ³ /min
MOTOR OUTPUT	3.7 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	



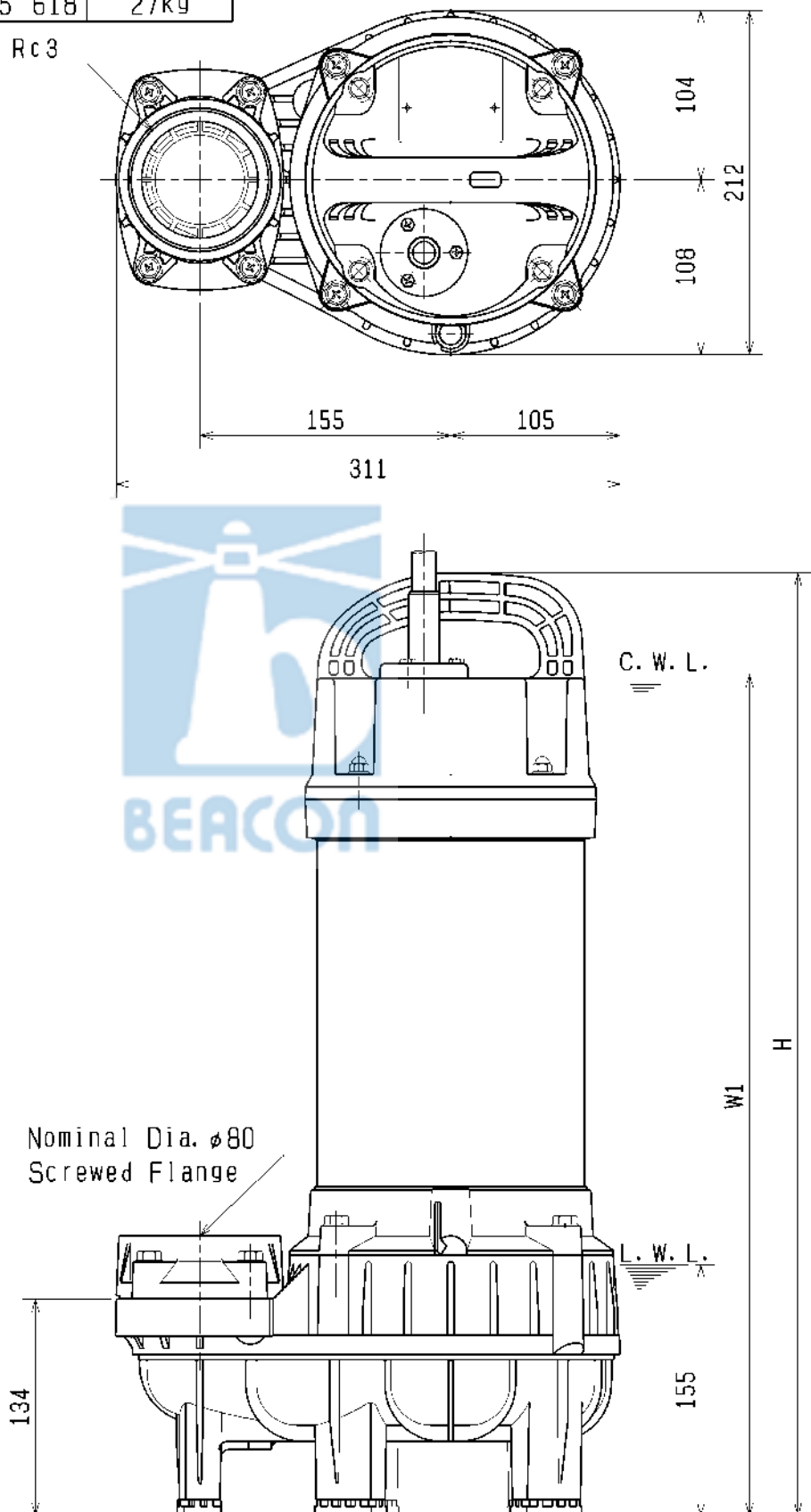
TSURUMI MFG. CO., LTD.

DIMENSION DRAWING			No.	No.	A-20161-1
TYPE	Sewage Submersible Vortex Pump		MODEL	80PU22.2 -51/61 80PU23.7 -51/61	

MODEL	W1	H	Approximate Weight (kg)
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*excluding cable

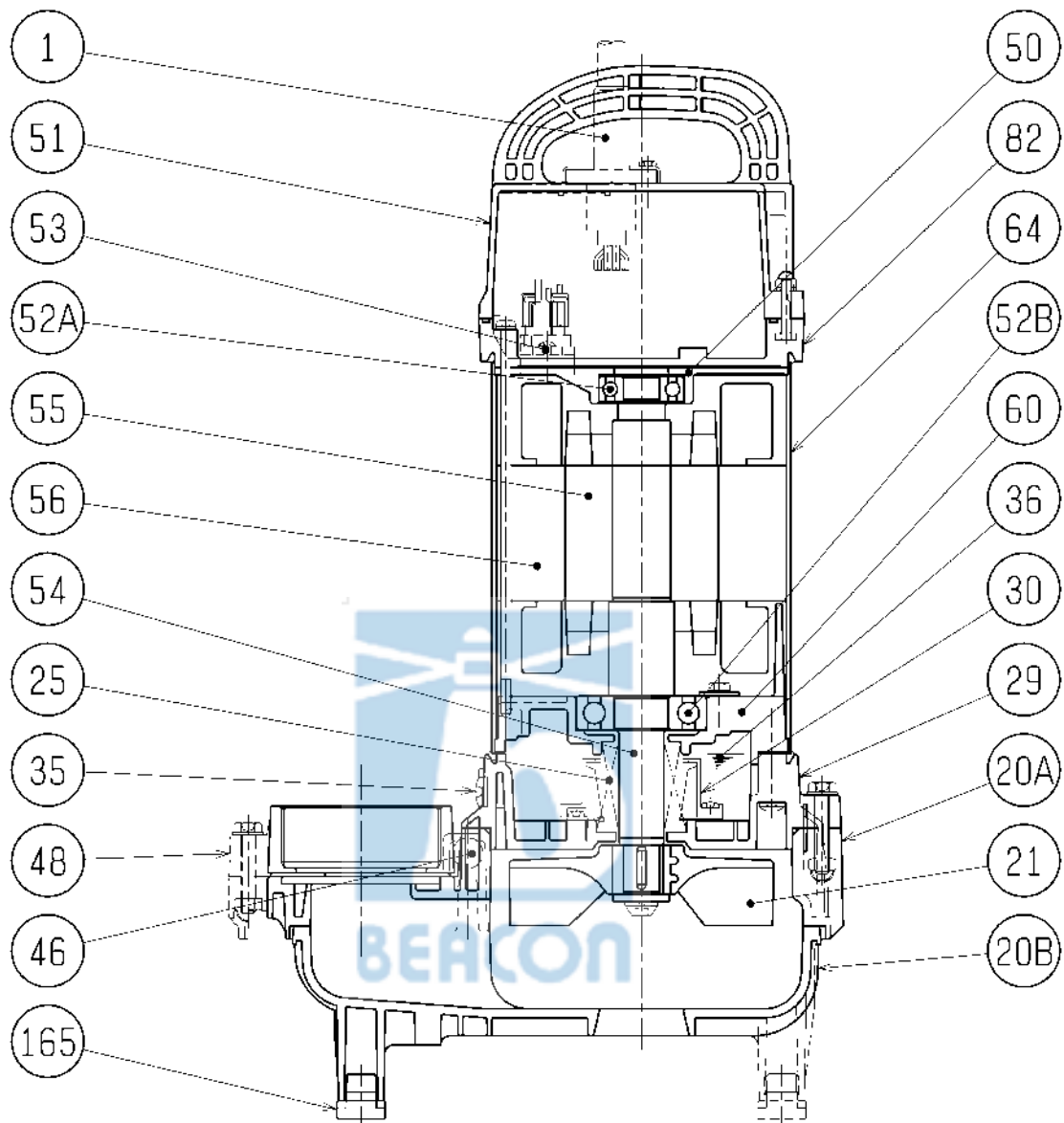
Rc3



C.W.L. :Continuous running Water Level

L.W.L. :Lowest running Water Level

SECTIONAL DRAWING			No.	No.	A-20164-1
TYPE	Sewage Submersible Vortex Pump		MODEL	80PU22.2 -51/61 80PU23.7 -51/61	



REQ. SPECIFICATION

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21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304(*2)
25	Mechanical Seal	1	H-25AT	55	Rotor	1	
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46	Air Release Valve	1	Glass Ball	165	Rubber Foot	5	Nitrile Butadien Rubber
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Alloy Casting				
51	Head Cover	1	Plastic W/GF				