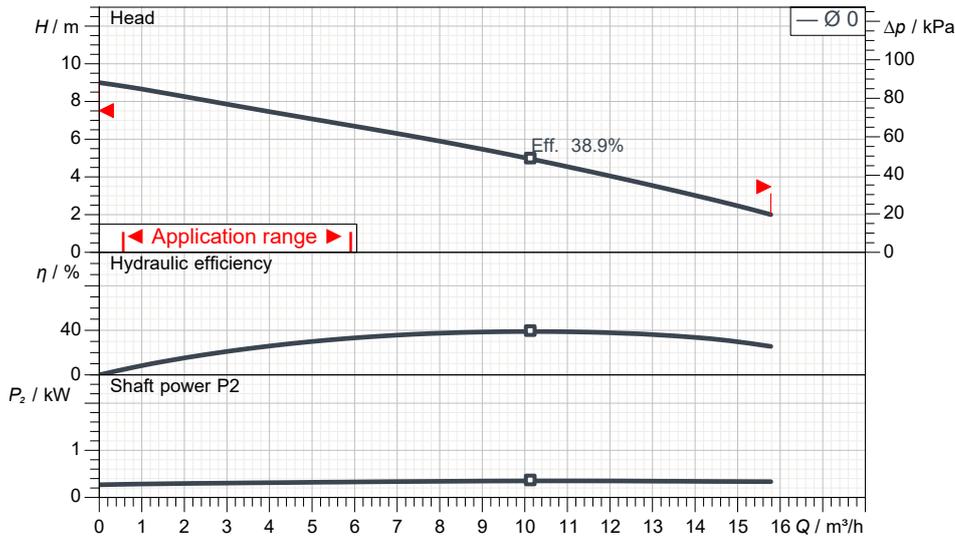


**Technical specification**
**1~ 50 Hz**


Characteristic curves according to UNI EN ISO 9906:2012  
 P<sub>2</sub><10kW: paragraph 4.4.2  
 10kW<P<sub>2</sub><100kW: Grade 3B  
 P<sub>2</sub>>100kW: Grade 2B  
 for pumps with standard material combination

**Pump**

Series	B
Pump name	50B2.4S-53 220-240V
Standard	

**Motor data**

Motor	TKN2-416 220-240/50
Rated voltage	220 V
Frequency	50 Hz
Motor phases	1~
Number of poles	2
Rated power P <sub>2</sub>	0.40 kW
Rated current	3.6 A
rpm	2855 1/min
Rated torque	1.3 Nm
Start*	

Degree of protection	IP 68
Insulation class	E
Protection device	Circle thermal protector
Type of oil	Turbine Oil (ISO VG32)
Oil amount	0.18

**Hydraulic**

Free passage	19 mm
Impeller type	Channel impeller
Max. hydraulic efficiency	38.9 %
Discharge	50 mm
Curve tolerance	UNI EN ISO 9906:2012

**Operating limits (standard pumps)**

Max. liquid temperature	40 °C
Max. density treated liquid	1030 kg/m <sup>3</sup>
pH treated liquid	5-9
Max. start per hour (equally distributed)	10
Wet/dry use	WET
Operating mode	S1

**Construction materials**

Motor enclosure	Gray Iron Casting 150
Shaft	420J2 Stainless Steel
Pump Casing	Gray Iron Casting 200
Impeller	Gray Iron Casting 200
Suction Cover	Ductile Iron Casting 500
Suction plate	N/A
Painting	Epoxy paint (Black)
Screws	304 Stainless Steel
Gaskets	NBR

**Construction features**

Power cable1	3C*1.25mm <sup>2</sup>
Power cable2	N/A
Sheath	VCT
Control cable	N/A
Sheath	N/A
Cable length*	5
Mechanical seals	H-16
Weight**	25 kg

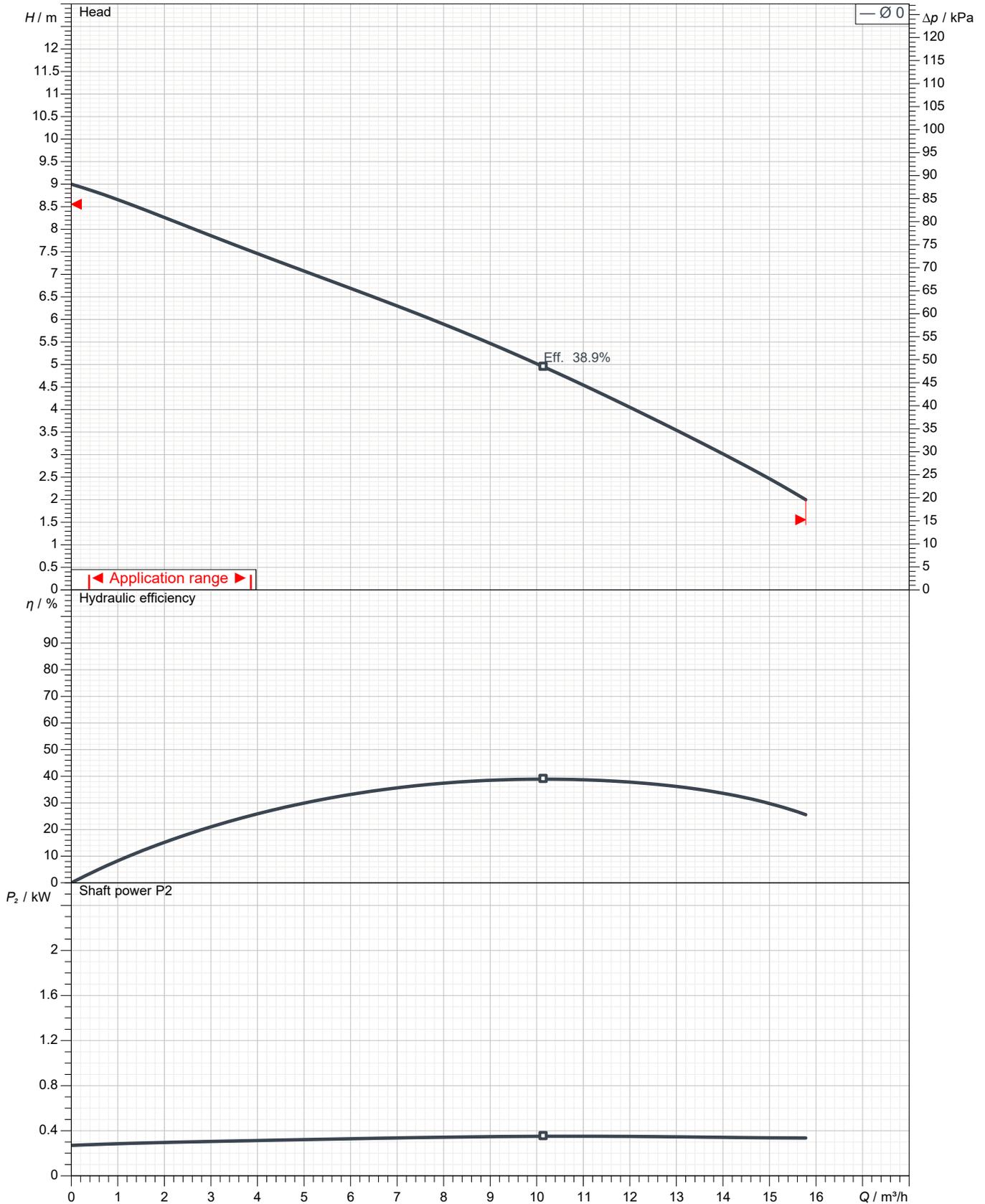
\* Please inquire about cable extensions  
 \*\* cable's weight not included

**Monitoring features**

Monitoring option	
leaking sensor -	N/A
monitoring equipment -	N/A

**Pump performance curves**
**3 ~ 50 Hz**

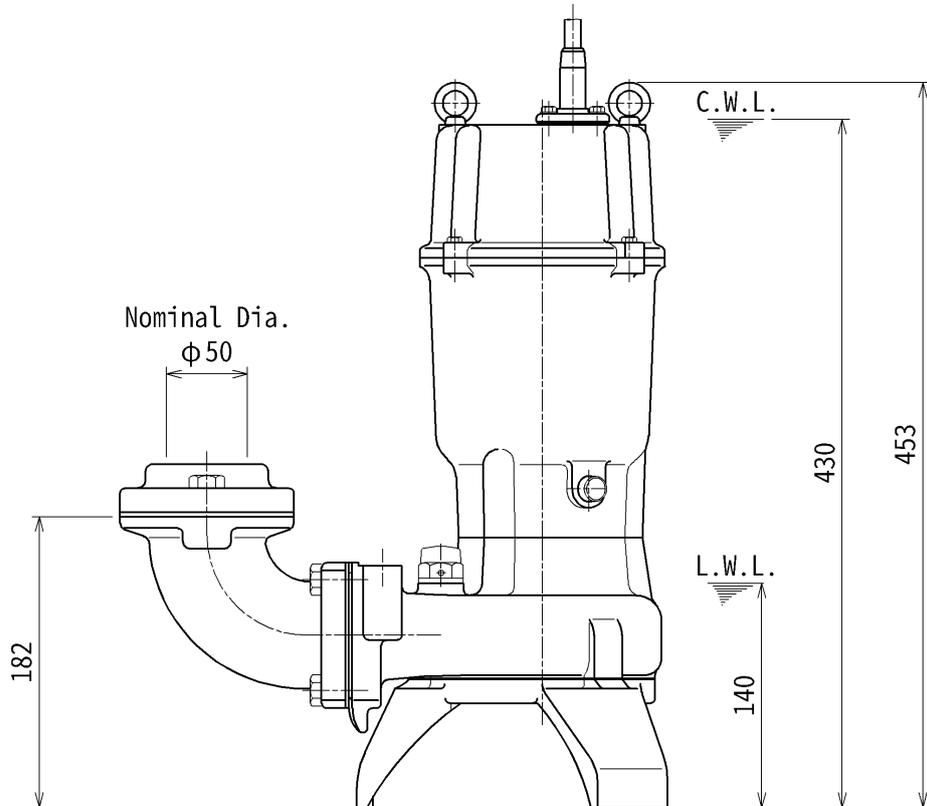
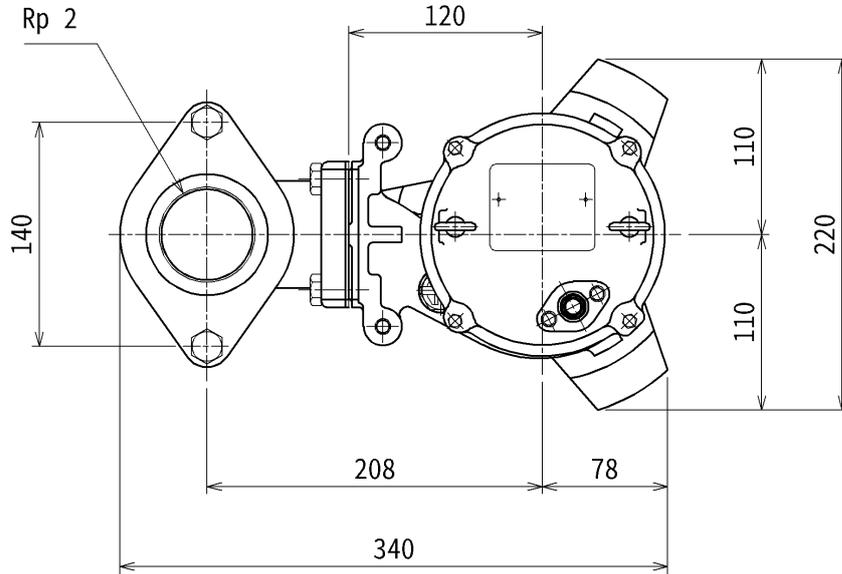
<b>Discharge</b> 50 mm	<b>Head</b>	<b>Capacity</b>	<b>Rated power</b> 0.4 kW	<b>Voltage</b> 220 V	<b>Current</b> 3.6 A	<b>rpm</b> 2855 1/min
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DIMENSION DRAWING		No.	No.	A-21669-25
TYPE	Submersible Sewage & Wastewater Pump	MODEL	50B2.4S -53	

Approximate Weight(※)
25kg

※excluding cable



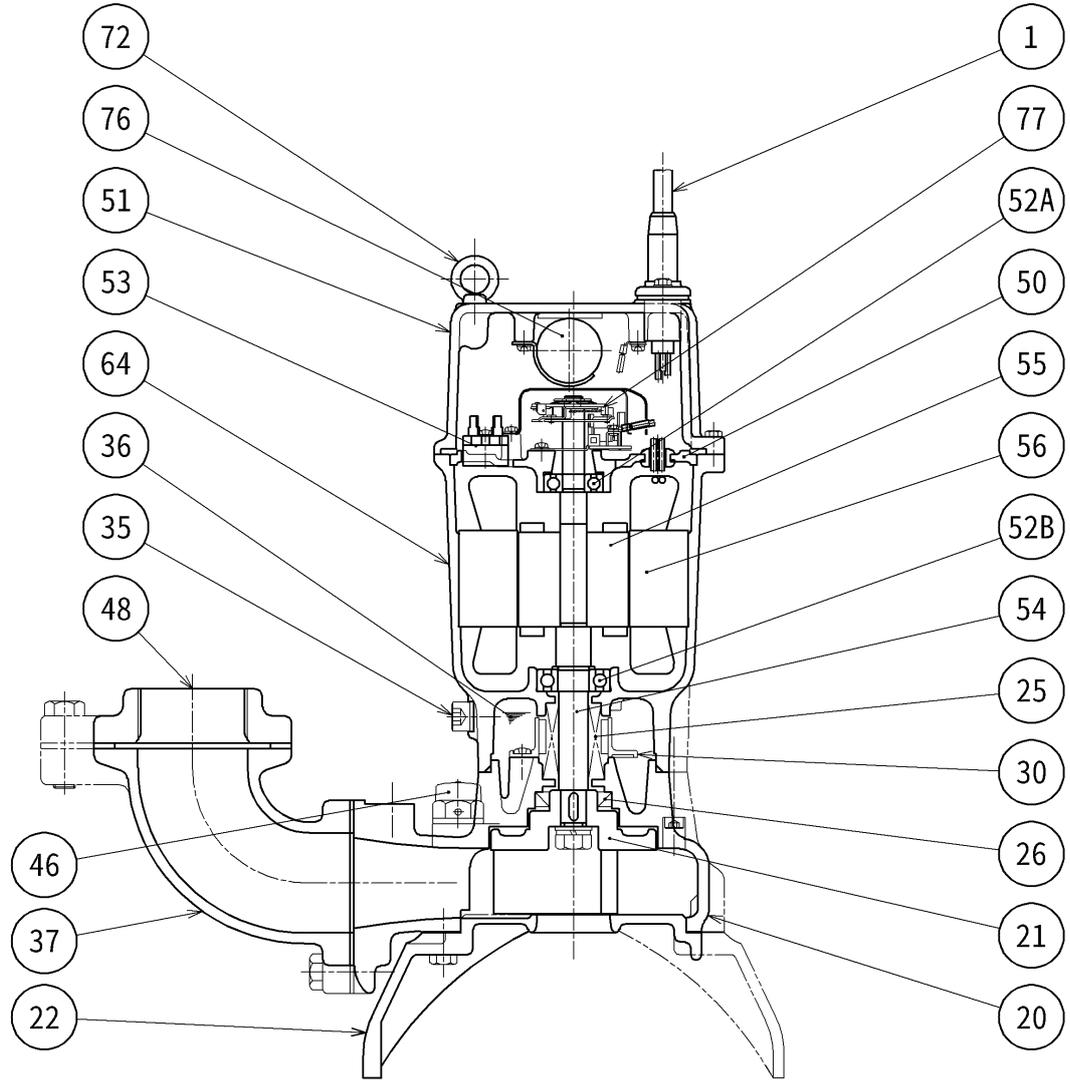
C.W.L.:Continuous running Water Level  
L.W.L.:Lowest running Water Level

TSURUMI MFG. CO., LTD.

unit:mm

Created on: 2025-09-11

SECTIONAL DRAWING		No.	No.	A-21670-35
TYPE	Submersible Sewage & Wastewater Pump	MODEL	50B2.4S -53	



REQ. SPECIFICATION	

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	51	Head Cover	1	Gray Iron Casting 150
20	Pump Casing	1	Gray Iron Casting 200	52A	Upper Bearing	1	6201ZZC3
21	Impeller	1	Gray Iron Casting 200	52B	Lower Bearing	1	6203ZZC3
22	Suction Cover Stand	1	Ductile Iron Casting 500	53	Motor Protector	1	
25	Mechanical Seal	1	H-16	54	Shaft	1	Stainless Steel 420J2
26	Oil Seal	1	TC 26428	55	Rotor	1	
30	Oil Lifter	1	Plastic	56	Stator	1	
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Gray Iron Casting 150
36	Lubricant		Turbine Oil (ISO VG32)	72	Eyebolt	2	Stainless Steel 304
37	Discharge Bend	1	Gray Iron Casting 200	76	Capacitor	1	
46	Air Release Valve	1	Nylon	77	Centrifugal Switch	1	
48	Screwed Flange	1	Gray Iron Casting 200				
50	Motor Bracket	1	Gray Iron Casting 150				

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