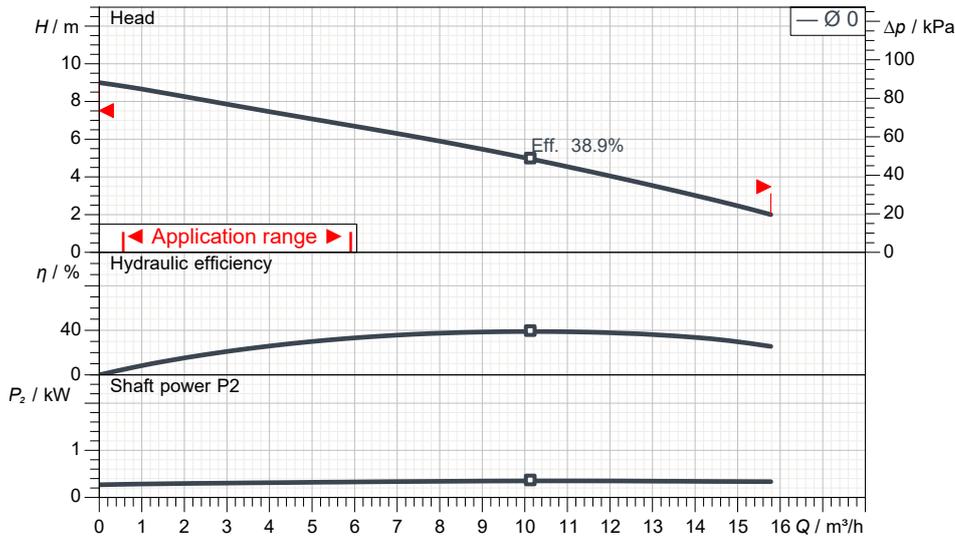


50B2.4-52 380-415V
Technical specification
3~ 50 Hz


Characteristic curves according to UNI EN ISO 9906:2012
 P₂<10kW: paragraph 4.4.2
 10kW<P₂<100kW: Grade 3B
 P₂>100kW: Grade 2B
 for pumps with standard material combination

Pump

Series	B
Pump name	50B2.4-52 380-415V
Standard	

Motor data

Motor	TKN-416T 380/415-50
Rated voltage	380 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P ₂	0.40 kW
Rated current	1.2 A
rpm	2865 1/min
Rated torque	1.3 Nm
Start*	Direct starting

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

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. ambient temperature	40 °C
Max. density treated liquid	1030 kg/m ³
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
Painting	Epoxy paint (Black)
Screws	304 Stainless Steel
Gaskets	NBR

Construction features

Power cable1	4C*1.25mm ²
Power cable2	N/A
Sheath	VCT
Control cable	N/A
Sheath	N/A
Cable length	6 m
Mechanical seals	H-16
Weight*	23 kg

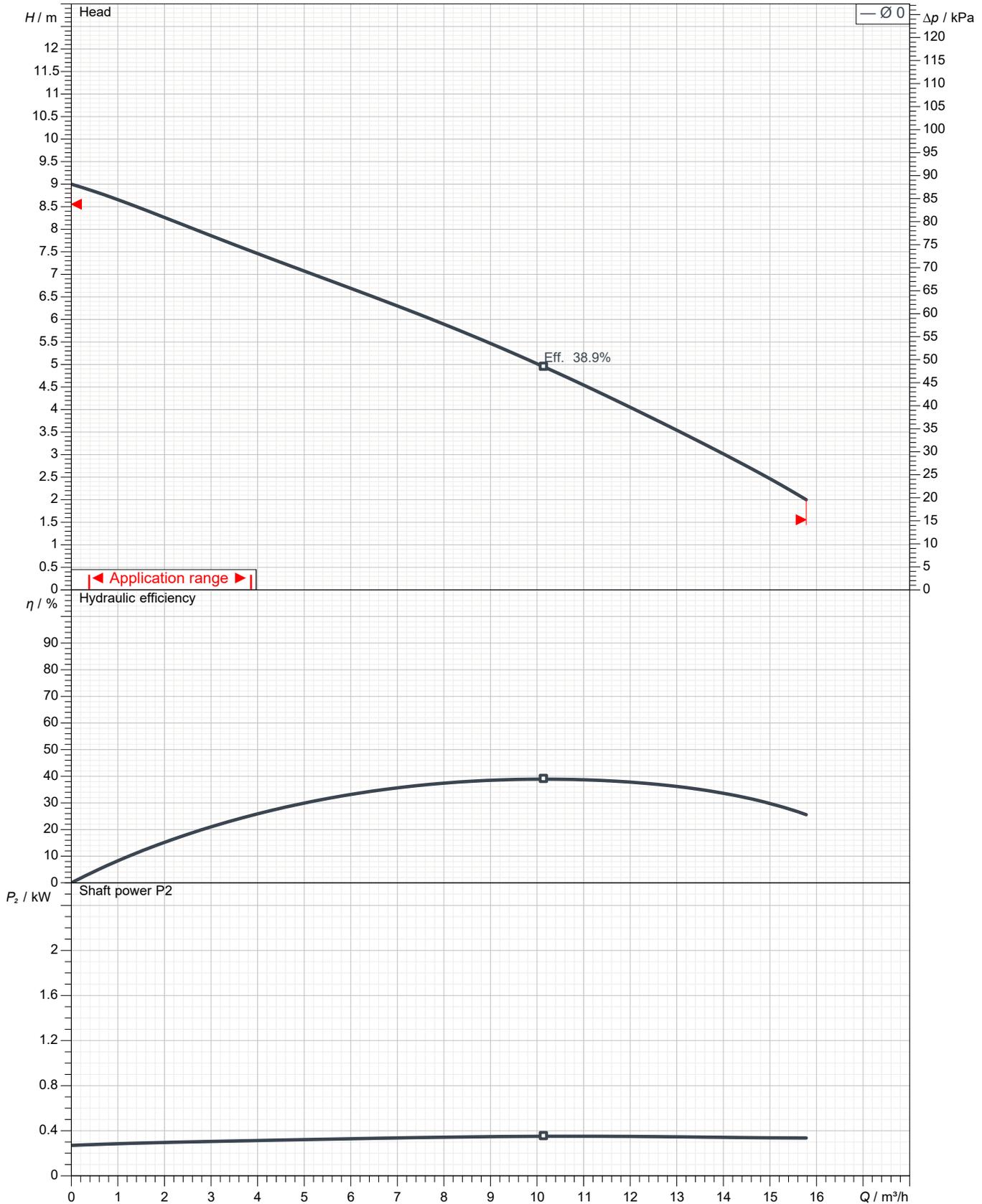
* cable and fixing system excluded

Monitoring features

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

Pump performance curves
3 ~ 50 Hz

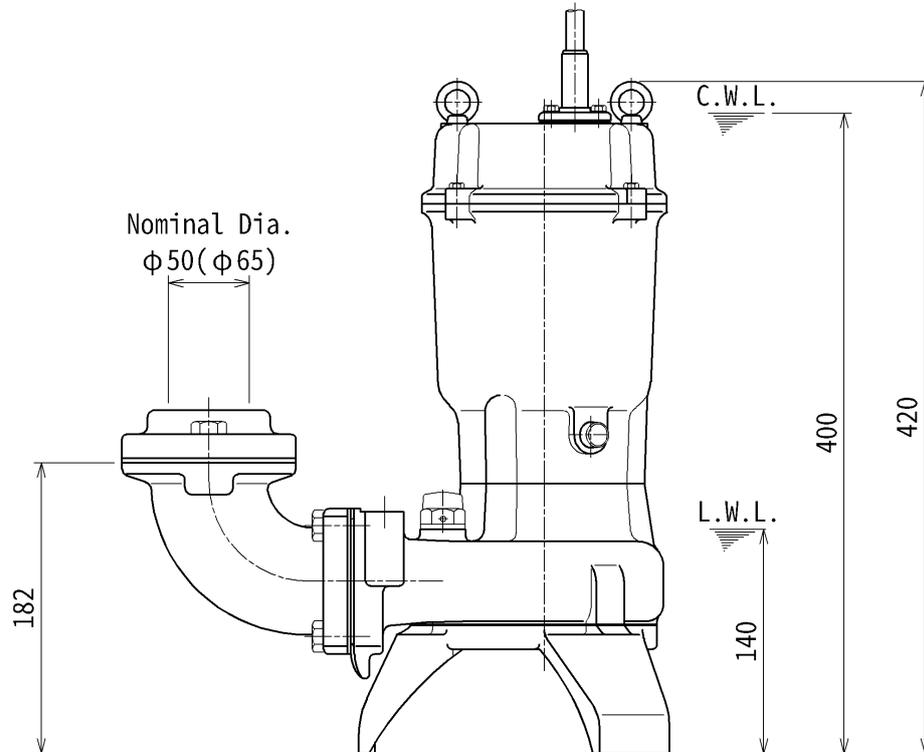
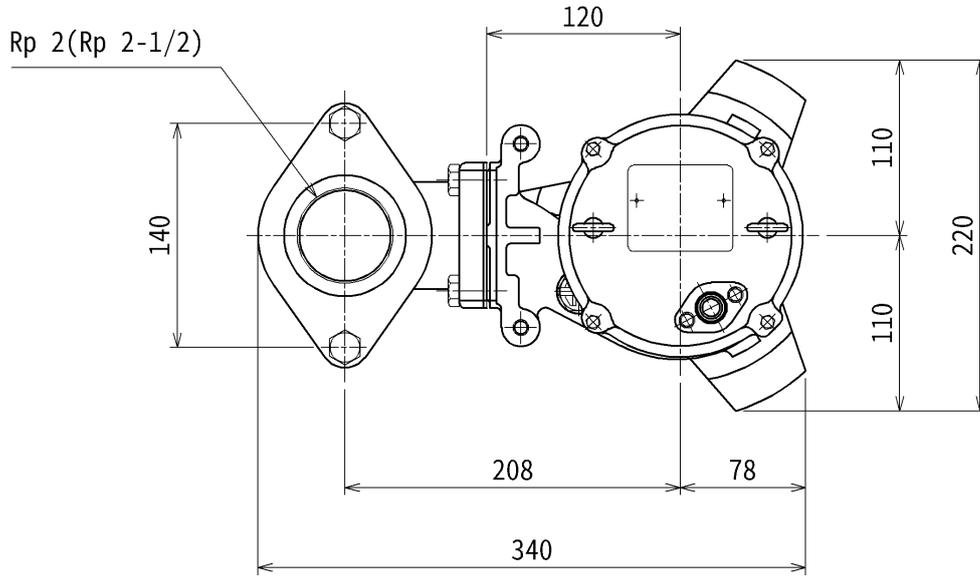
Discharge 50 mm	Head	Capacity	Rated power 0.4 kW	Voltage 380 V	Current 1.2 A	rpm 2865 1/min
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 Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination
 P2 < 10kW: paragraph 4.4.2
 10kW < P2 < 100kW: Grade 3B
 P2 > 100kW: Grade 2B

DIMENSION DRAWING		No.	No.	A-19578-55
TYPE	Submersible Sewage & Wastewater Pump	MODEL	50B2.4 -52	

Approximate Weight(※)
23kg

※excluding cable



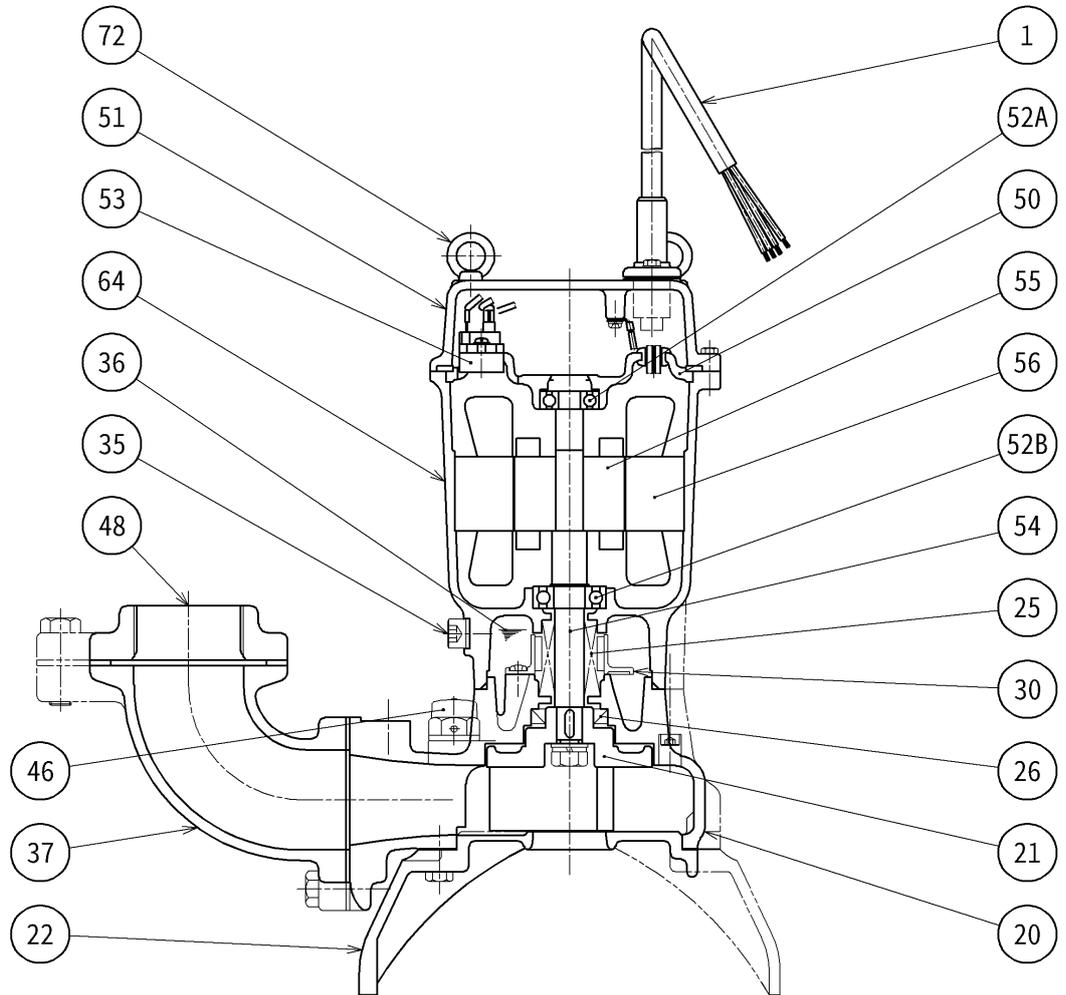
C.W.L.:Continuous running Water Level
L.W.L.:Lowest running Water Level

TSURUMI MFG. CO., LTD.

unit:mm

Created on: 2025-04-21

SECTIONAL DRAWING		No.	No.	A-19579-55
TYPE	Submersible Sewage & Wastewater Pump	MODEL	50B2.4 -52	



REQ. SPECIFICATION	

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	50	Motor Bracket	1	Gray Iron Casting 150
20	Pump Casing	1	Gray Iron Casting 200	51	Head Cover	1	Gray Iron Casting 150
21	Impeller	1	Gray Iron Casting 200	52A	Upper Bearing	1	6201ZZC3
22	Suction Cover Stand	1	Ductile Iron Casting 500	52B	Lower Bearing	1	6203ZZC3
25	Mechanical Seal	1	H-16	53	Motor Protector	1	
26	Oil Seal	1	TC26428	54	Shaft	1	420J2 Stainless Steel
30	Oil Lifter	1	Plastic	55	Rotor	1	
35	Oil Plug	1	304 Stainless Steel	56	Stator	1	
36	Lubricant		Turbine Oil (ISO VG32)	64	Motor Frame	1	Gray Iron Casting 150
37	Discharge Bend	1	Gray Iron Casting 200	72	Eyebolt	2	304 Stainless Steel
46	Air Release Valve	1	Nylon				
48	Screwed Flange	1	Gray Iron Casting 200				

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