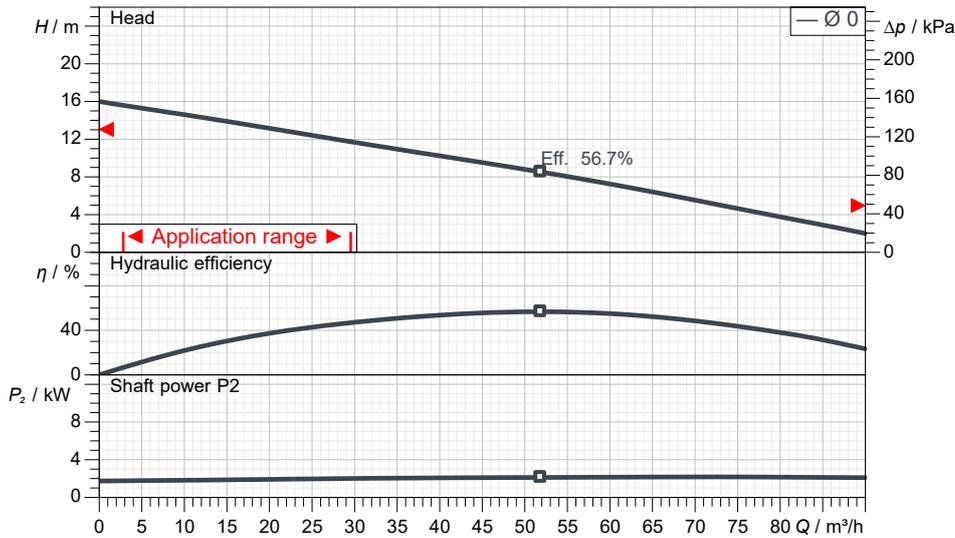


Technical specification
3~ 50 Hz


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	100B42.2-E1 380-415V
Standard	

Motor data

Motor	CT1-4-2.2-B D
Rated voltage	380 V
Frequency	50 Hz
Motor phases	3~
Number of poles	4
Rated power P ₂	
Rated current	4.9 A
rpm	1427 1/min
Rated torque	
Start*	Direct starting

Degree of protection	IP 68
Insulation class	F
Protection device	Circle thermal protector
Type of oil	Turbine oil VG32
Oil amount	1.3 l

Hydraulic

Free passage	45 mm
Impeller type	Channel impeller
Max. hydraulic efficiency	56.7 %
Discharge	100 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)	6
Wet/dry use	WET
Operating mode	S1

Construction materials

Motor enclosure	Gray Iron Casting 200
Shaft	420J2 Stainless Steel
Pump Casing	Gray Iron Casting 200
Impeller	Gray Iron Casting 200
Suction Cover	Gray Iron Casting 200
Painting	Epoxy paint (Black)
Screws	304 Stainless Steel
Gaskets	NBR

Construction features

Power cable1	4C*1.5mm ²
Power cable2	N/A
Sheath	YCW
Control cable	N/A
Sheath	N/A
Cable length	6 m
Mechanical seals	H-30A
Weight*	66 kg

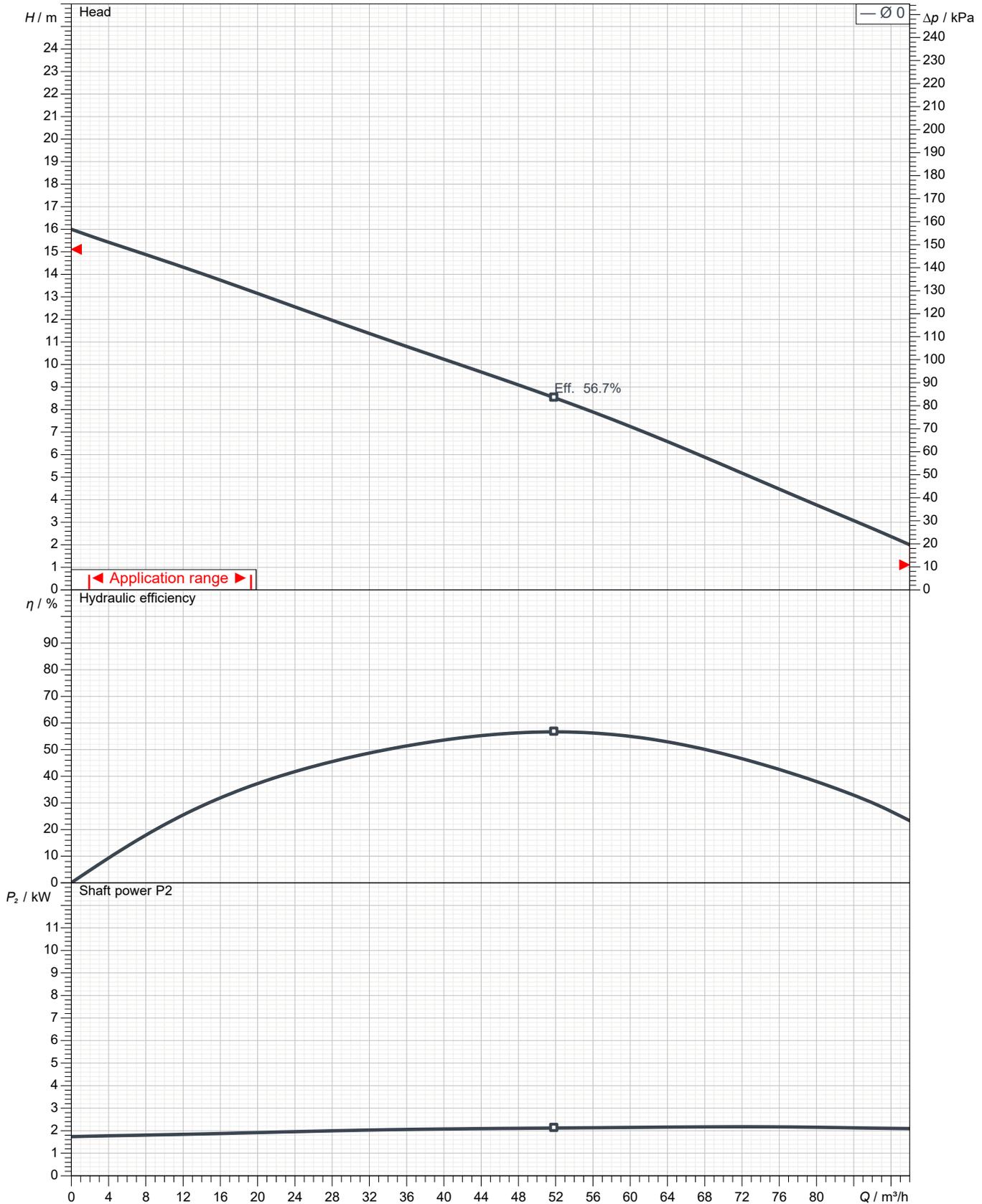
* cable and fixing system excluded

Monitoring features

Monitoring option	
leaking sensor -	N/A
monitoring equipment -	

Pump performance curves
3 ~ 50 Hz

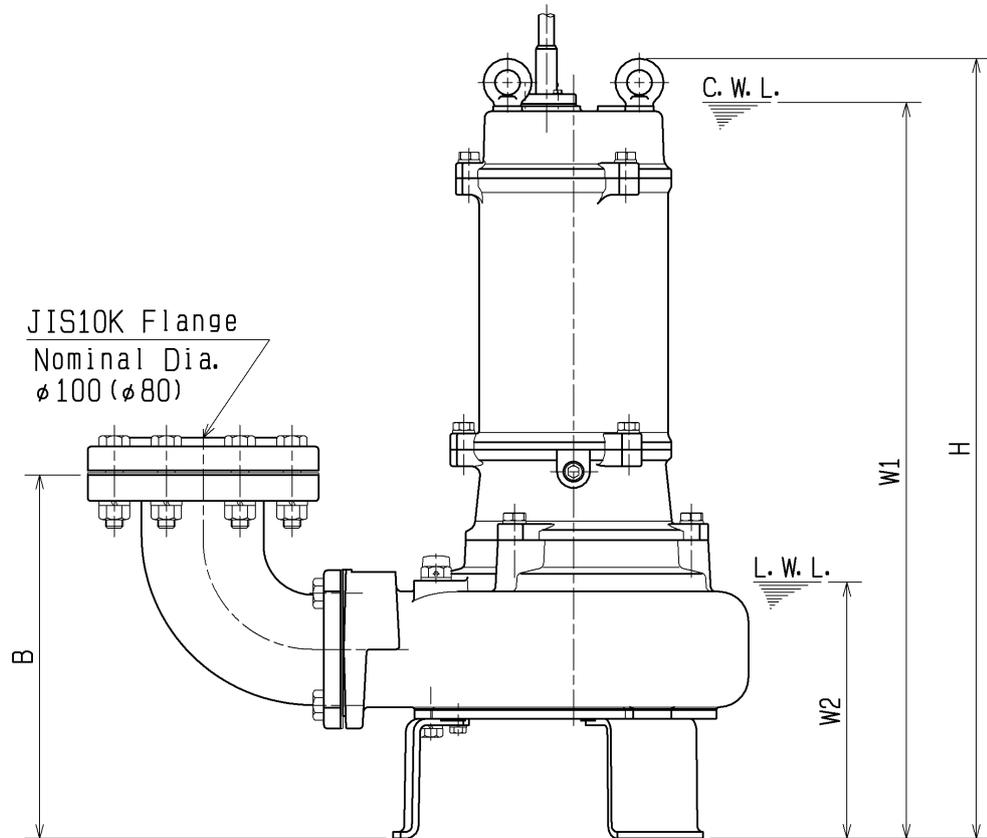
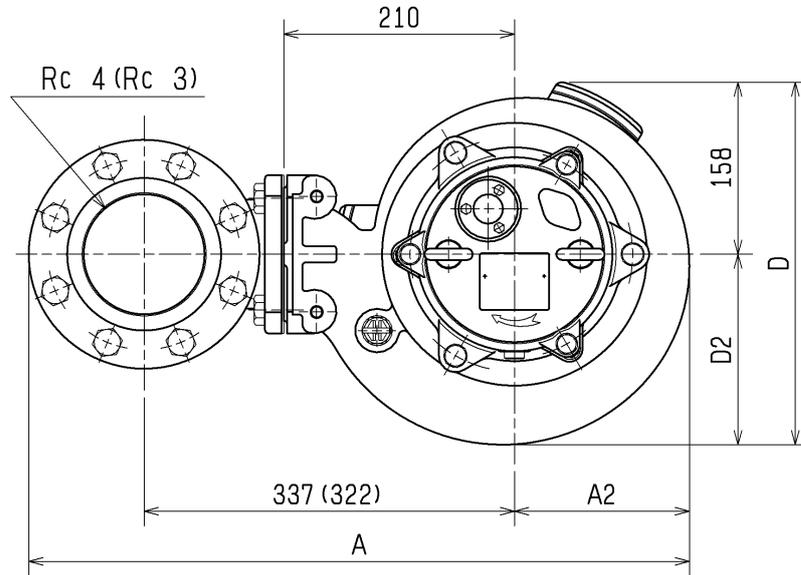
Discharge 100 mm	Head	Capacity	Rated power	Voltage 380 V	Current 4.9 A	rpm 1427 1/min
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 Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination
 P₂<10kW: paragraph 4.4.2
 10kW<P₂<100kW: Grade 3B
 P₂>100kW: Grade 2B

DIMENSION DRAWING		No.	No.	A-22447-1
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100B42.2 -E1/W1 100B43.7 -E1/W1	

MODEL	A	A2	B	D	D2	W1	W2	H	Approximate Weight (※)
100B42.2-E1/W1	596 (568)	154	329 (304)	324	166	600	225	642	66kg
100B43.7-E1/W1	601 (574)	159	334 (309)	333	175	675	235	716	80kg

※excluding cable



The Figure in () shows the dimensions of discharge Bore at Nominal Dia $\phi 80$.

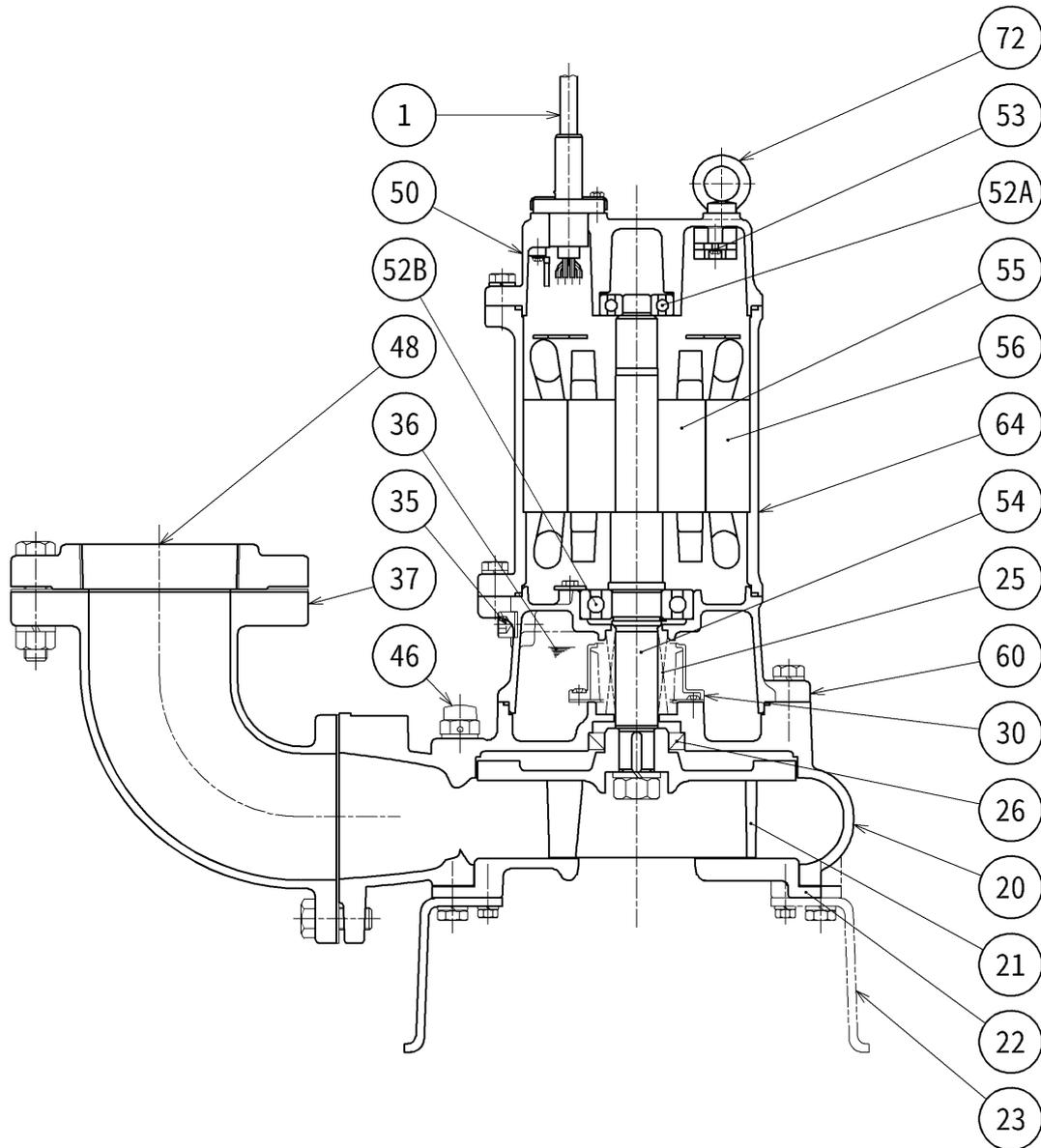
C. W. L. :Continuous running Water Level
L. W. L. :Lowest running Water Level

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unit:mm

Created on: 2025-03-27

SECTIONAL DRAWING		No.	No.	A-22448-5
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100B42.2 -E1/W1 100B43.7 -E1/W1	



	2.2kW	3.7kW
※1	φ 30	φ 35
※2	456812	507212
※3	6307ZZC3	6309ZZC3

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 200
20	Pump Casing	1	Gray Iron Casting 200	52A	Upper Bearing	1	6304ZZC3
21	Impeller	1	Gray Iron Casting 200	52B	Lower Bearing	1	※3
22	Suction Cover	1	Gray Iron Casting 200	53	Motor Protector	1	
23	Stand	3	Steel Plate	54	Shaft	1	420J2 Stainless Steel
25	Mechanical Seal	1	※1	55	Rotor	1	
26	Oil Seal	1	※2	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Gray Iron Casting 200
35	Oil Plug	1	304 Stainless Steel	64	Motor Frame	1	Gray Iron Casting 200
36	Lubricant		Turbine Oil (ISO VG32)	72	Eyebolt	2	304 Stainless Steel
37	Discharge Bend	1	Gray Iron Casting 200				
46	Air Release Valve	1	Nylon				
48	Screwed Flange	1	Gray Iron Casting 200				

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All data shown are not binding. Tsurumi reserves the right to change data and dimensions without notice.