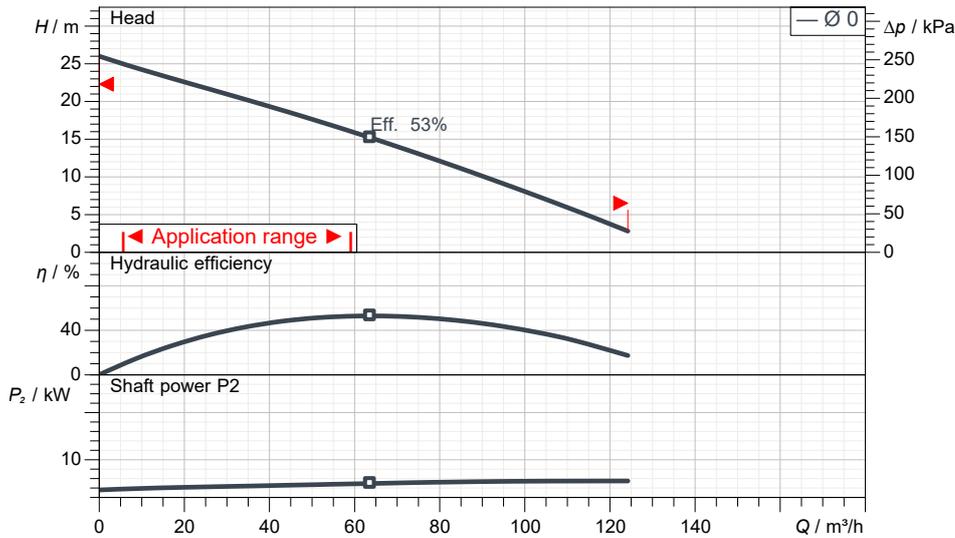


Technical specification
3~ 50 Hz


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	100B45.5-56 380-415V
Standard	

Motor data

Motor	CT1-4-5.5-B2(2) 400V
Rated voltage	380 V
Frequency	50 Hz
Motor phases	3~
Number of poles	4
Rated power P ₂	5.50 kW
Rated current	12.4 A
rpm	1455 1/min
Rated torque	36.1 Nm
Start*	Direct starting

Degree of protection	IP 68
Insulation class	F
Protection device	Circle thermal protector
Type of oil	Turbine oil VG32
Oil amount	4.2 l

Hydraulic

Free passage	40 mm
Impeller type	Channel impeller
Max. hydraulic efficiency	53.0 %
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)	4
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*3.5mm ²
Power cable2	N/A
Sheath	2PNCT
Control cable	N/A
Sheath	N/A
Cable length	8 m
Mechanical seals	H-35A
Weight*	140 kg

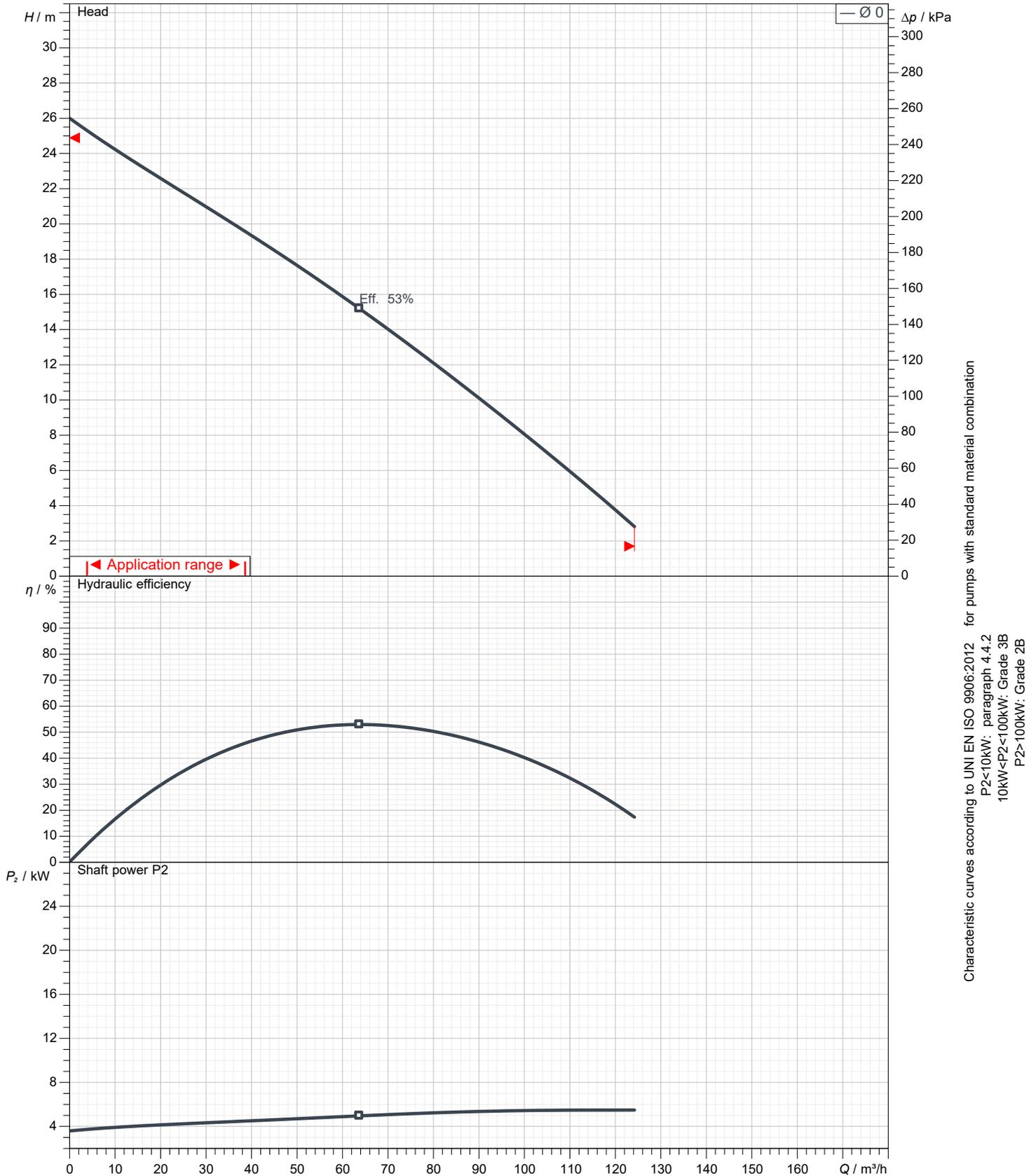
* cable and fixing system excluded

Monitoring features

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

100B45.5-56 380-415V
Pump performance curves
3 ~ 50 Hz

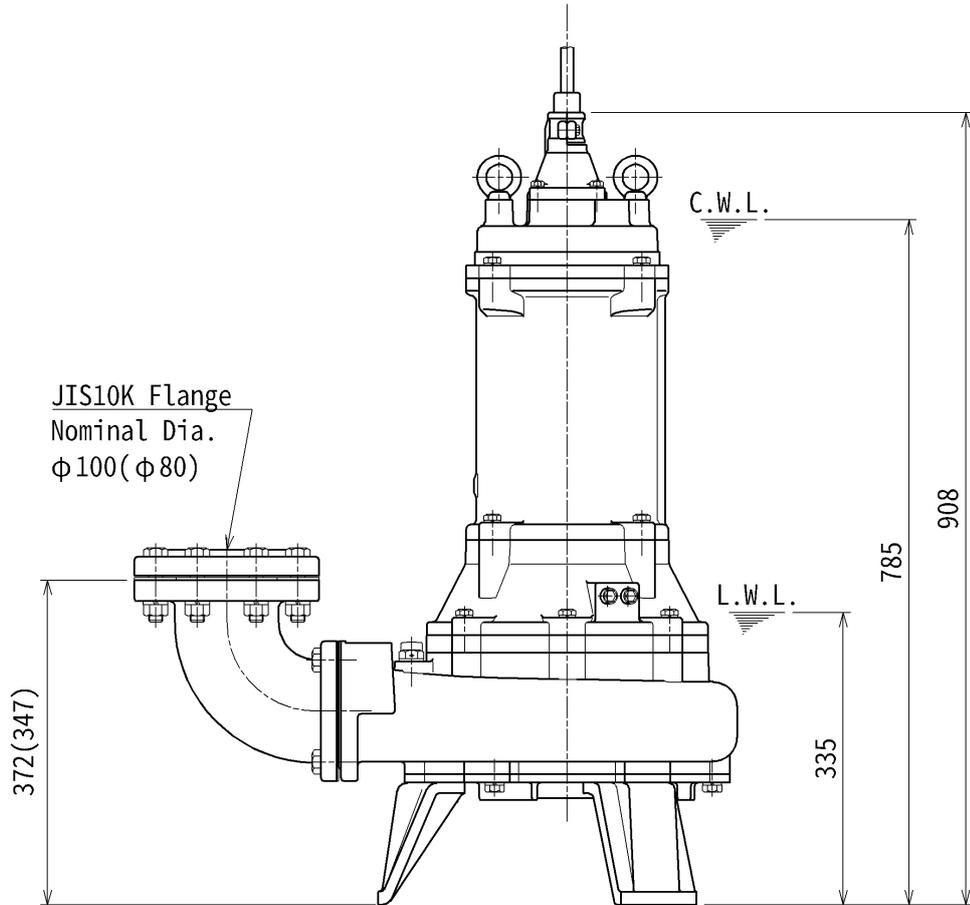
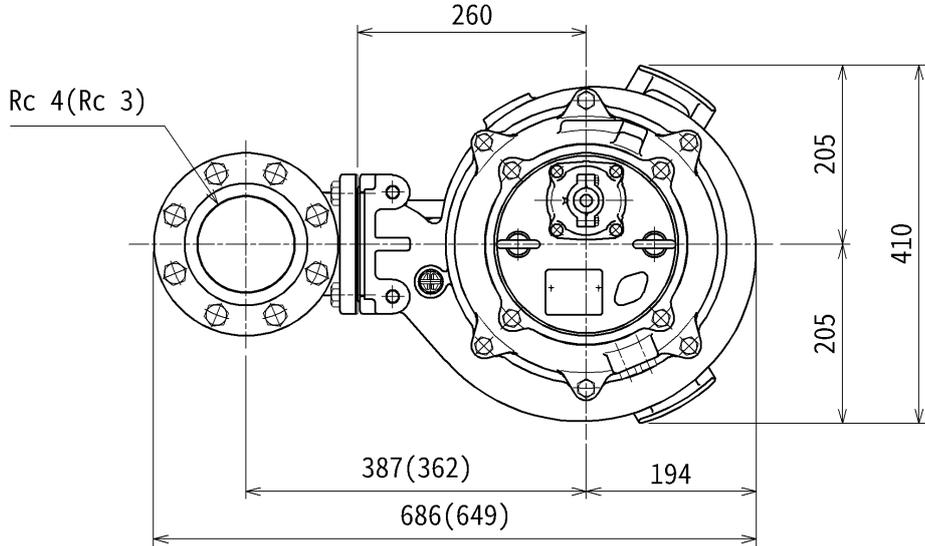
Discharge	Head	Capacity	Rated power	Voltage	Current	rpm
100 mm			5.5 kW	380 V	12.4 A	1455 1/min


 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-23840-25I
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100B45.5 -56	

Approximate Weight(※)
140kg

※excluding cable



The figure in () shows the dimensions of discharge Bore at Nominal $\Phi 80$.

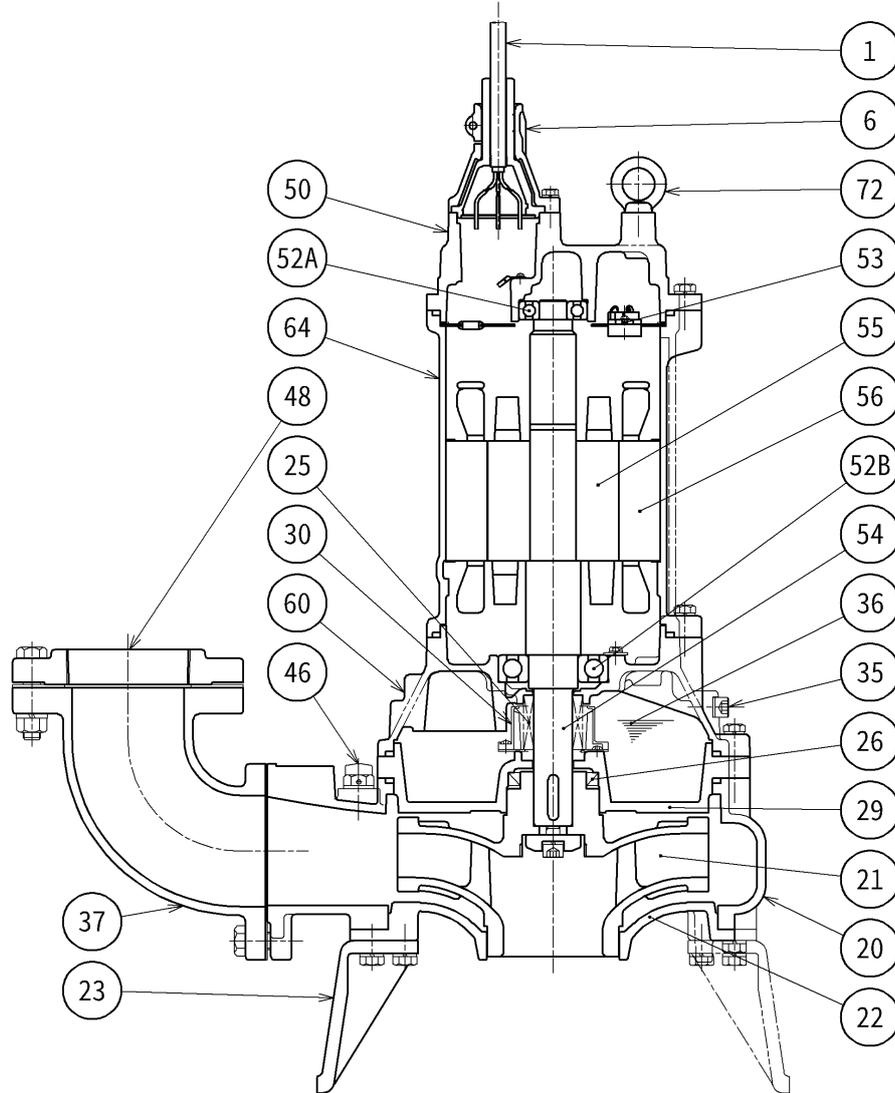
C.W.L.:Continuous running Water Level
L.W.L.:Lowest running Water Level

TSURUMI MFG. CO., LTD.

unit:mm

Created on: 2025-03-20

SECTIONAL DRAWING		No.	No. A-23842-45I
TYPE	Submersible Sewage & Wastewater Pump	MODEL	100B45.5 -56



REQ. SPECIFICATION	

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cable	1	Chloroprene Sheath	48	Screwed Flange	1	Gray Iron Casting 200
6	Stuffing Box	1	Gray Iron Casting 200	50	Motor Bracket	1	Gray Iron Casting 200
20	Pump Casing	1	Gray Iron Casting 200	52A	Upper Bearing	1	6305ZC3
21	Impeller	1	Gray Iron Casting 200	52B	Lower Bearing	1	6309ZC3
22	Suction Cover	1	Gray Iron Casting 200	53	Motor Protector	1	
23	Stand	3	Gray Iron Casting 200	54	Shaft	1	420J2 Stainless Steel
25	Mechanical Seal	1	H-35A	55	Rotor	1	
26	Oil Seal	1	TC608212	56	Stator	1	
29	Oil Casing	1	Gray Iron Casting 200	60	Bearing Housing	1	Gray Iron Casting 200
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Gray Iron Casting 200
35	Oil Plug	2	304 Stainless Steel	72	Eyebolt	2	304 Stainless Steel
36	Lubricant		Turbine Oil (ISO VG32)				
37	Discharge Bend	1	Gray Iron Casting 200				
46	Air Release Valve	1	Nylon				

TSURUMI MFG. CO., LTD.

Created on: 2025-03-20

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