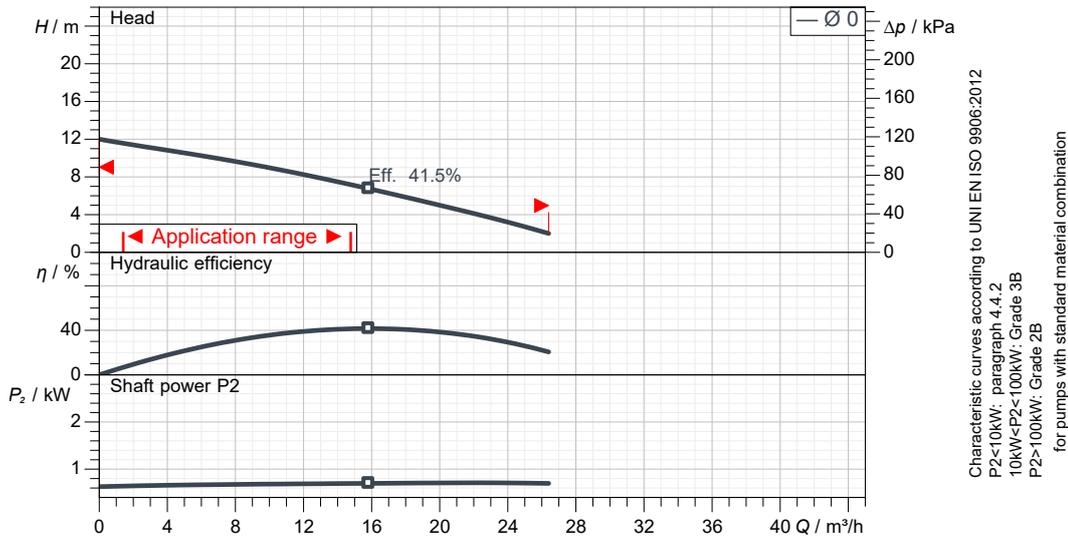


Technical specification
3~ 50 Hz

Pump

Series	B
Pump name	50B2.75-53 380-415V
Standard	

Motor data

Motor	ND1-2-0.75-B(2)400-50
Rated voltage	380 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P ₂	0.75 kW
Rated current	1.9 A
rpm	2810 1/min
Rated torque	2.5 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	0.44 l

Hydraulic

Free passage	20 mm
Impeller type	Channel impeller
Max. hydraulic efficiency	41.5 %
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	Gray Iron Casting 200
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-20A
Weight*	25 kg

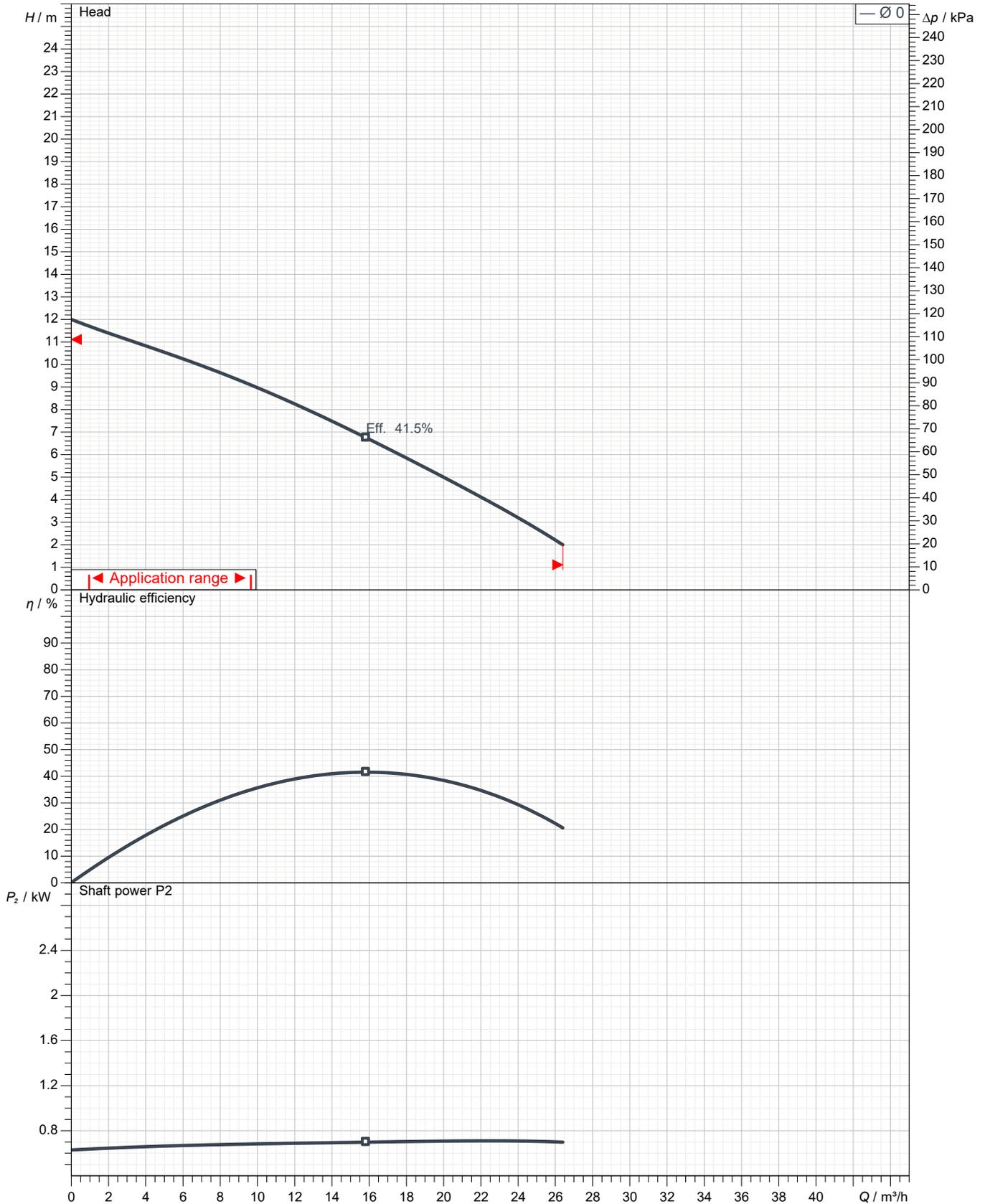
* cable and fixing system excluded

Monitoring features

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

50B2.75-53 380-415V
Pump performance curves
3 ~ 50 Hz

Discharge	Head	Capacity	Rated power	Voltage	Current	rpm
50 mm				380 V	1.9 A	2810 1/min

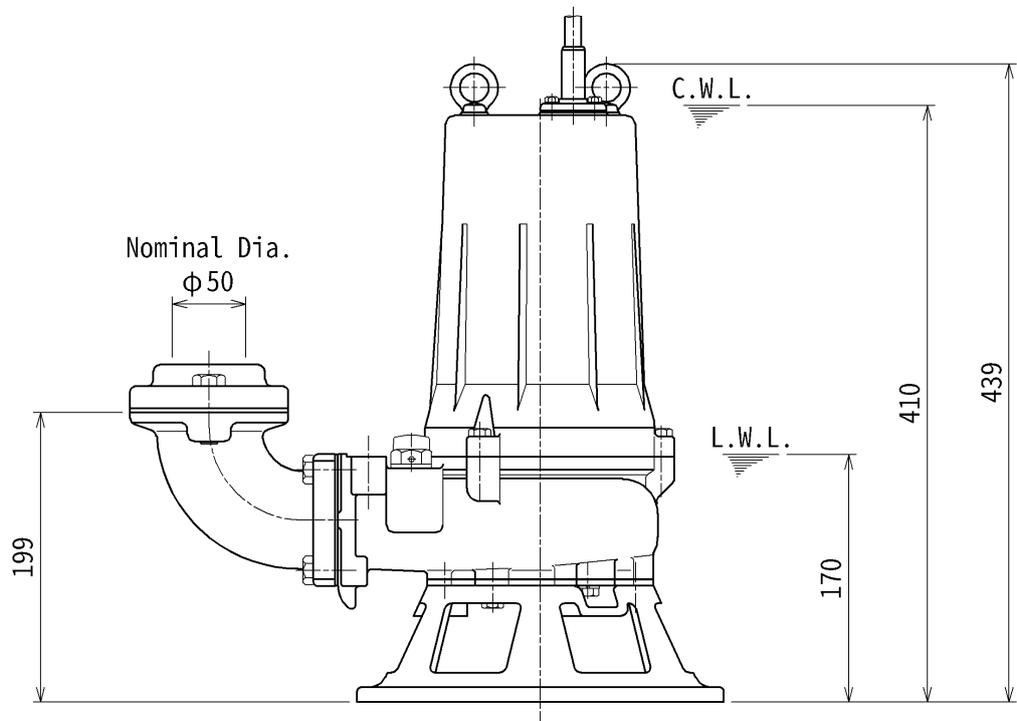
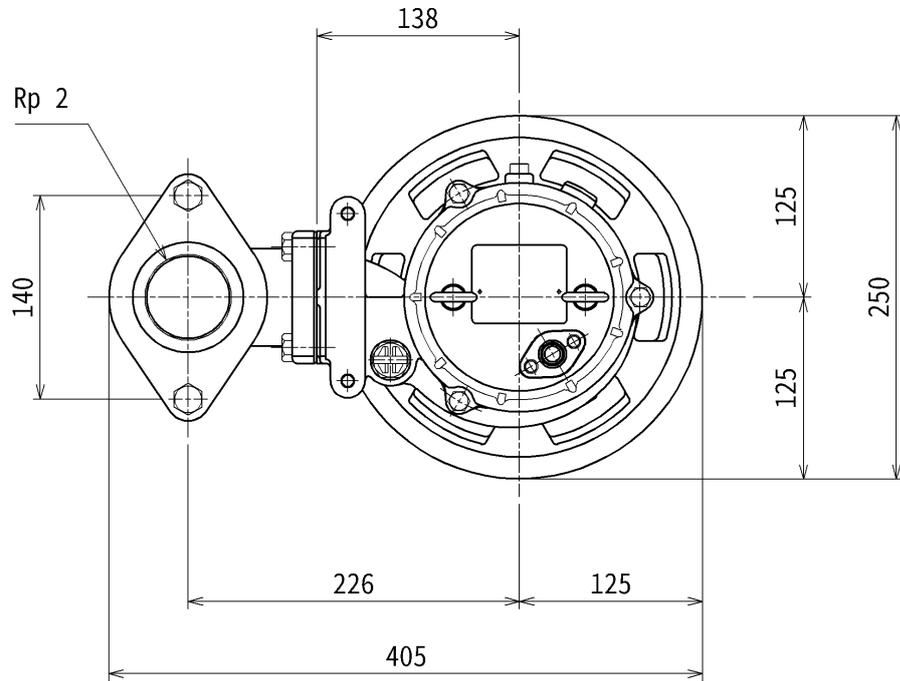


Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination
 P₂<10kW: paragraph 4.4.2
 10kW<P₂<100kW: Grade 3B
 P₂>100kW: Grade 2B

DIMENSION DRAWING		No.	No.	A-23181-25
TYPE	Submersible Sewage & Wastewater Pump	MODEL	50B2.75 -53	

Approximate Weight(※)
25kg

※excluding cable



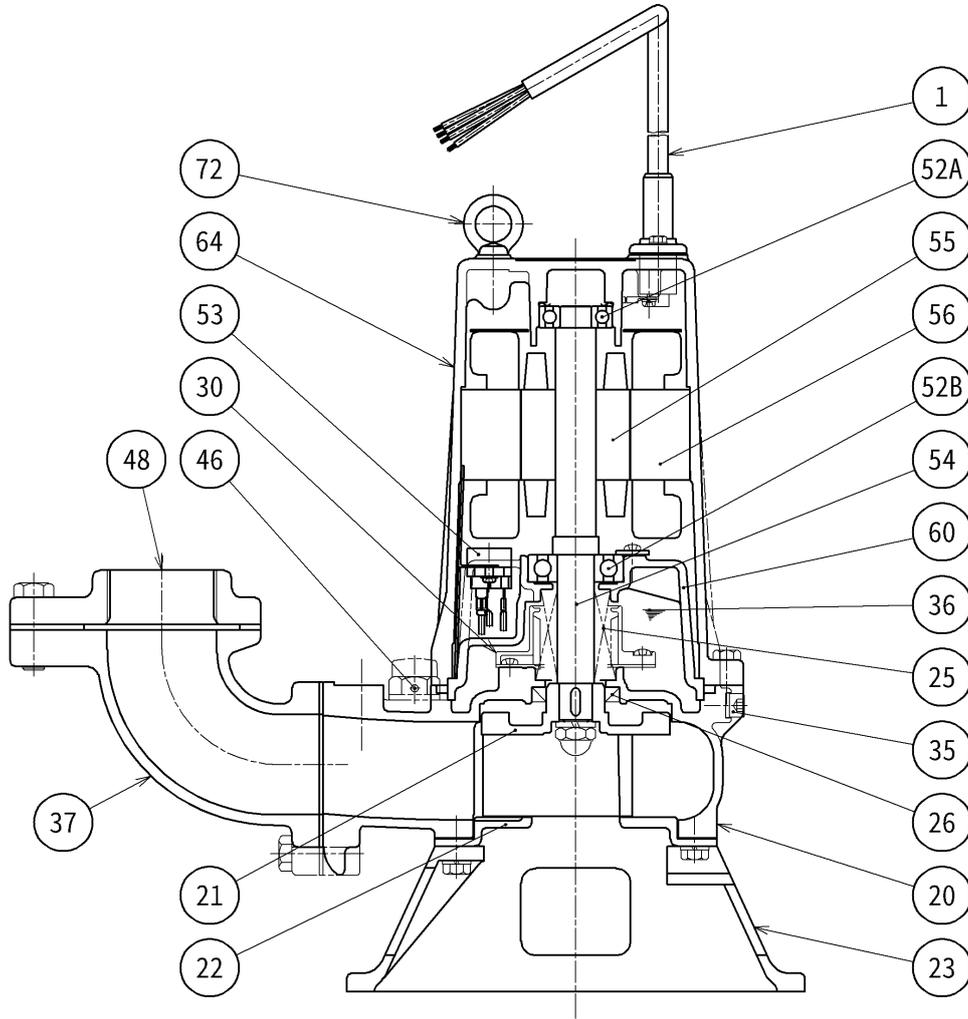
C.W.L.:Continuous running Water Level
L.W.L.:Lowest running Water Level

TSURUMI MFG. CO., LTD.

unit:mm

Created on: 2025-03-14

SECTIONAL DRAWING		No.	No.	A-23183-35
TYPE	Submersible Sewage & Wastewater Pump	MODEL	50B2.75 -53	



REQ. SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	48	Screwed Flange	1	Gray Iron Casting 200
20	Pump Casing	1	Gray Iron Casting 200	52A	Upper Bearing	1	6203ZZC3
21	Impeller	1	Gray Iron Casting 200	52B	Lower Bearing	1	6304ZZC3
22	Suction Cover	1	Gray Iron Casting 200	53	Motor Protector	1	
23	Strainer Stand	1	Gray Iron Casting 200	54	Shaft	1	420J2 Stainless Steel
25	Mechanical Seal	1	H-20A	55	Rotor	1	
26	Oil Seal	1	TC32488	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Gray Iron Casting 150
35	Oil Plug	1	304 Stainless Steel	64	Motor Frame	1	Gray Iron Casting 150
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				

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