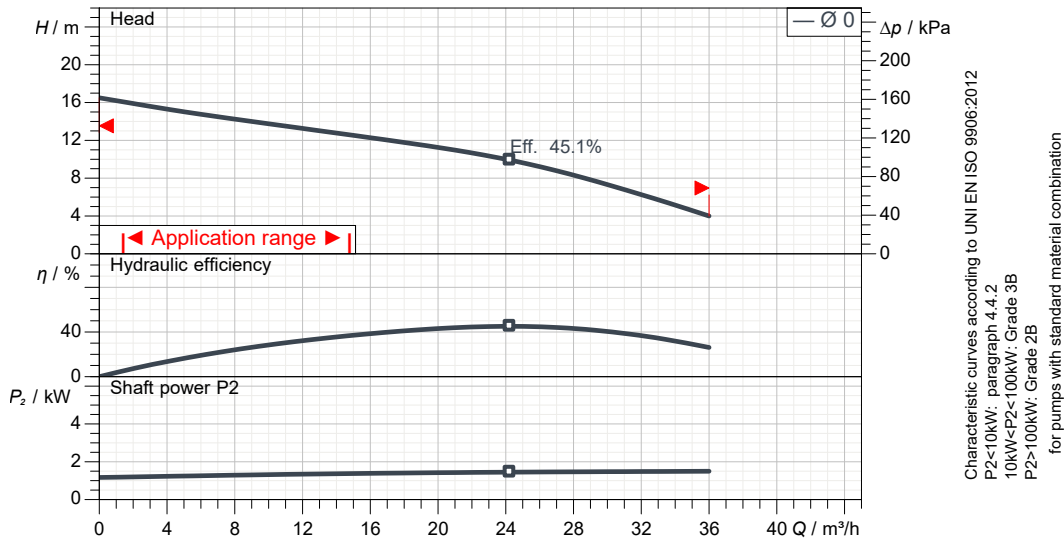


Technical specification

3~ 50 Hz


Pump

Series	U
Pump name	80U21.5-54 380-415V
Standard	

Motor data

Motor	JT1-2-1.5-SF 400V D UL
Rated voltage	380 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P_2	1.50 kW
Rated current	3.6 A
rpm	2912 1/min
Rated torque	4.9 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	0.84 l

Hydraulic

Free passage	46 mm
Impeller type	Vortex impeller
Max. hydraulic efficiency	45.1 %
Discharge	80 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 150
Shaft	420J2 Stainless Steel
Pump Casing	Gray Iron Casting 200
Impeller	Gray Iron Casting 200
Suction Cover	
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*	40 kg

* cable and fixing system excluded

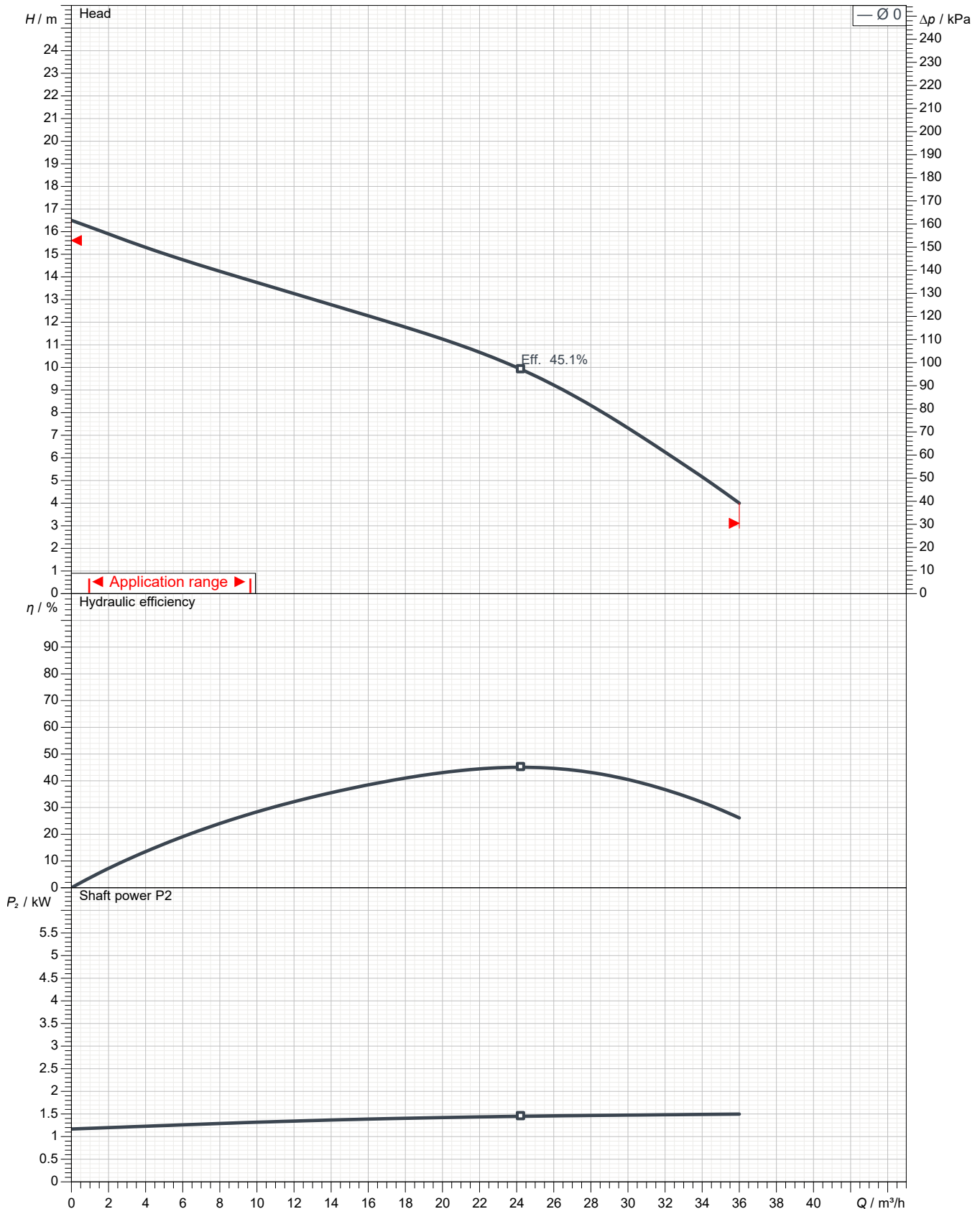
Monitoring features

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

Pump performance curves

3 ~ 50 Hz

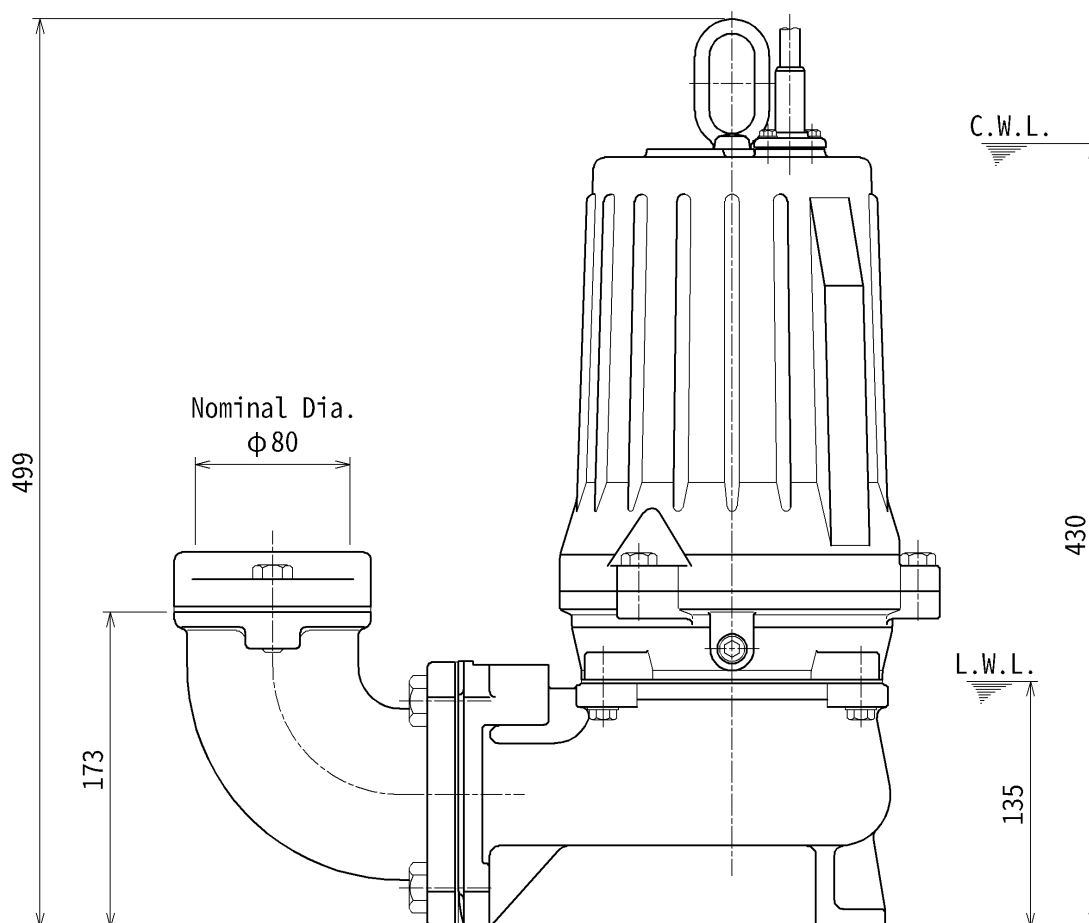
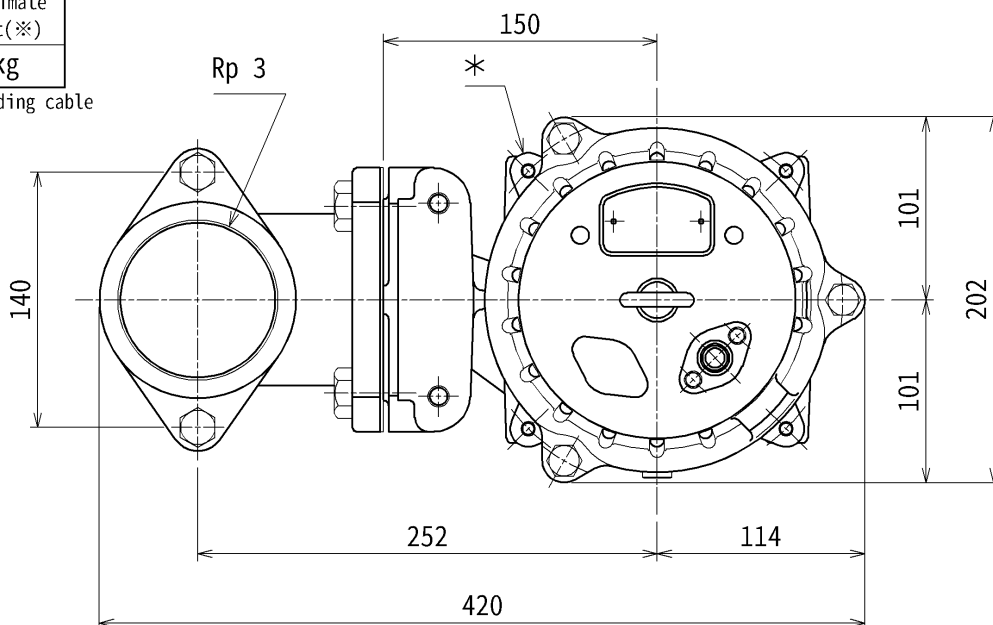
Discharge	Head	Capacity	Rated power	Voltage	Current	rpm
80 mm			1.5 kW	380 V	3.6 A	2912 1/min



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-29769-35
TYPE	Submersible Sewage & Wastewater Pump	MODEL	80U21.5 -54	

Approximate Weight(※)
40kg
※excluding cable



*An air release hole to prevent airlock is provided on the top of the pump casing.

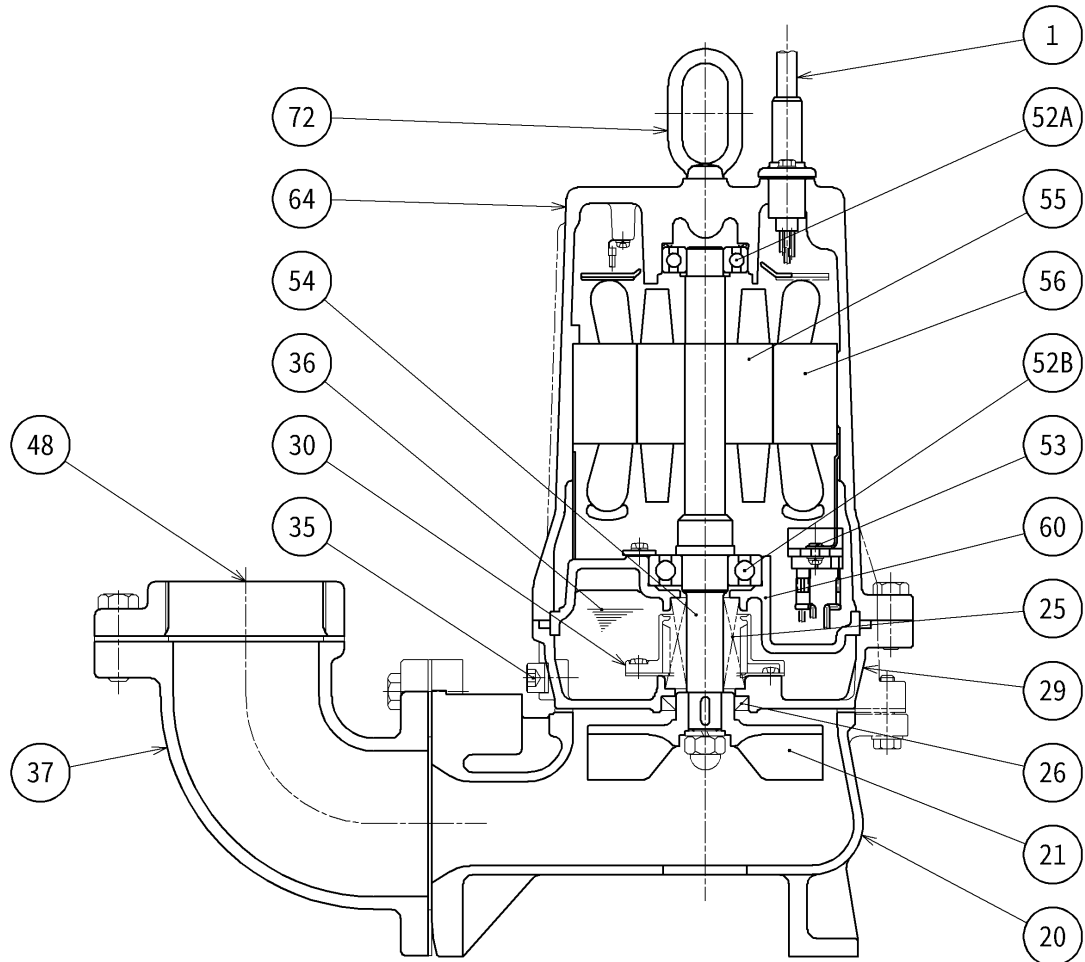
C.W.L.:Continuous running Water Level
L.W.L.:Lowest running Water Level

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unit:mm

Created on: 2025-03-11

SECTIONAL DRAWING		No.		No.	A-29770-25
TYPE	Submersible Sewage & Wastewater Pump		MODEL	80U21.5 -54	



REQ. SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52A	Upper Bearing	1	6204ZZC3
20	Pump Casing	1	Gray Iron Casting 200	52B	Lower Bearing	1	6305ZZC3
21	Impeller	1	Gray Iron Casting 200	53	Motor Protector	1	
25	Mechanical Seal	1	H-20A	54	Shaft	1	420J2 Stainless Steel
26	Oil Seal	1	TC32488	55	Rotor	1	
29	Oil Casing	1	Gray Iron Casting 200	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	1	304 Stainless Steel
37	Discharge Bend	1	Gray Iron Casting 200				
48	Screwed Flange	1	Gray Iron Casting 200				

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Created on: 2025-03-11

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