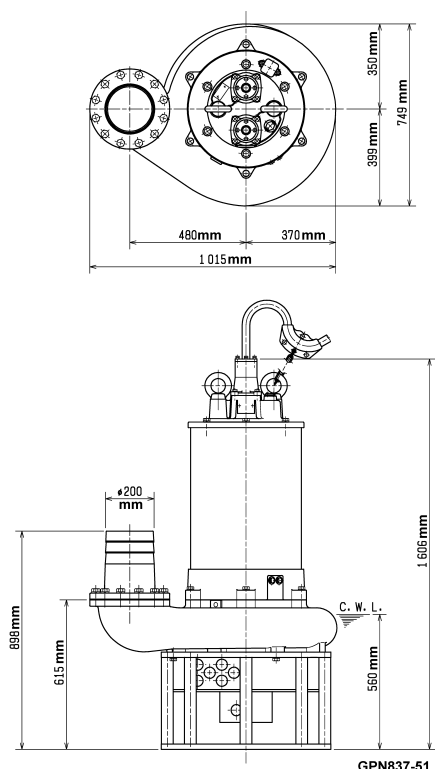
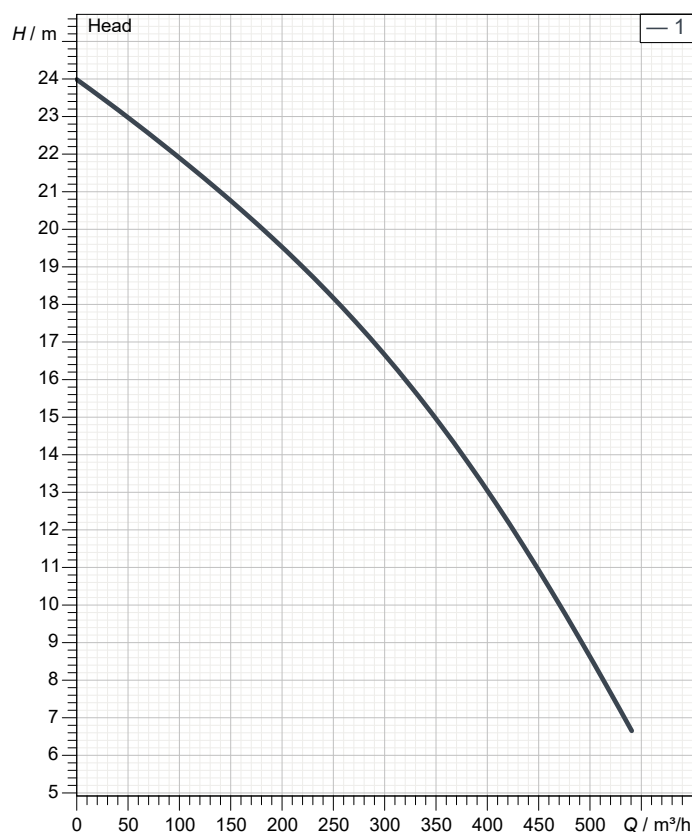


Data sheet GPN837-51



CWL: Continuous running water level



Specification

Electric submersible pump GPN-series
 Degree of protection IP 68
 Pressure resistance max. 30 m
 Type of impeller Open
 Max. solid handling 46 mm
 Suitable for:
 sludge, slurry, liquids containing sand

Electric motor

Dry-type submersible induction motor
 Insulation class F 6Poles 970 rpm
 Starting mode Star-delta
 Rated voltage 400 V 50 Hz 3~
 Power uptake 43.38 kW
 Rated power 37.00 kW
 Rated current 74 A
 Start current 490.0 A

Cable

20m NSSHÖU 4Cx10mm²+3x1,5ST / 20m NSSHÖU 4Cx10mm²

Motor Protection

Circle thermal protector
 (snap-action bi-metal device)

Shaft seal

Double inside mechanical seal in oil bath
 additional lubrication by oil lifting device
 Primary seal
 Silicon carbide on silicon carbide
 Secondary seal
 Silicon carbide on silicon carbide

Bearings

Shielded ball bearings, maintenance-free

Materials

Impeller	Chromium iron casting
Agitator	Chromium iron casting
Pump casing	FC200 (EN-GJL-200)
Suction cover	FC200 (EN-GJL-200)
Motor Frame	FC150 (EN-GJL-150)
Shaft	DIN 1.7220 (chromium molybdenum)

Discharge size

8" Schlauchanschluß

Weight

815 kg (dry weight of the pump only without cable)

Performance curve

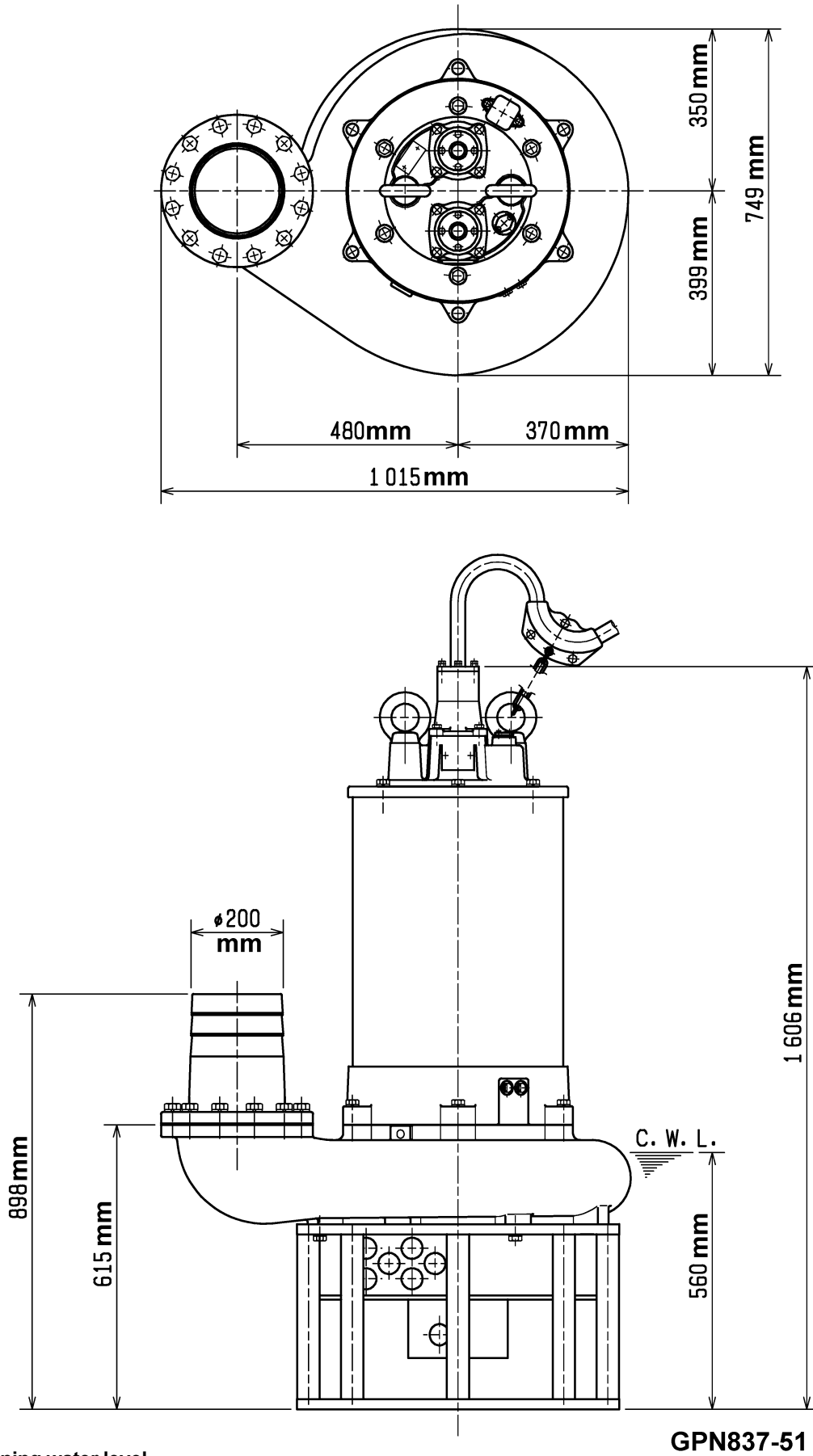
GPN837-51

Discharge port	8"
Head	24.0 m
Flow	540.7 m³/h
Rated power	37.00 kW
Power input	43.38 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	74 A
Starting current	490.03 A
Number of poles	6
Speed	970 rpm
Starting mode	Star-delta
Insulation class	F



Dimensions

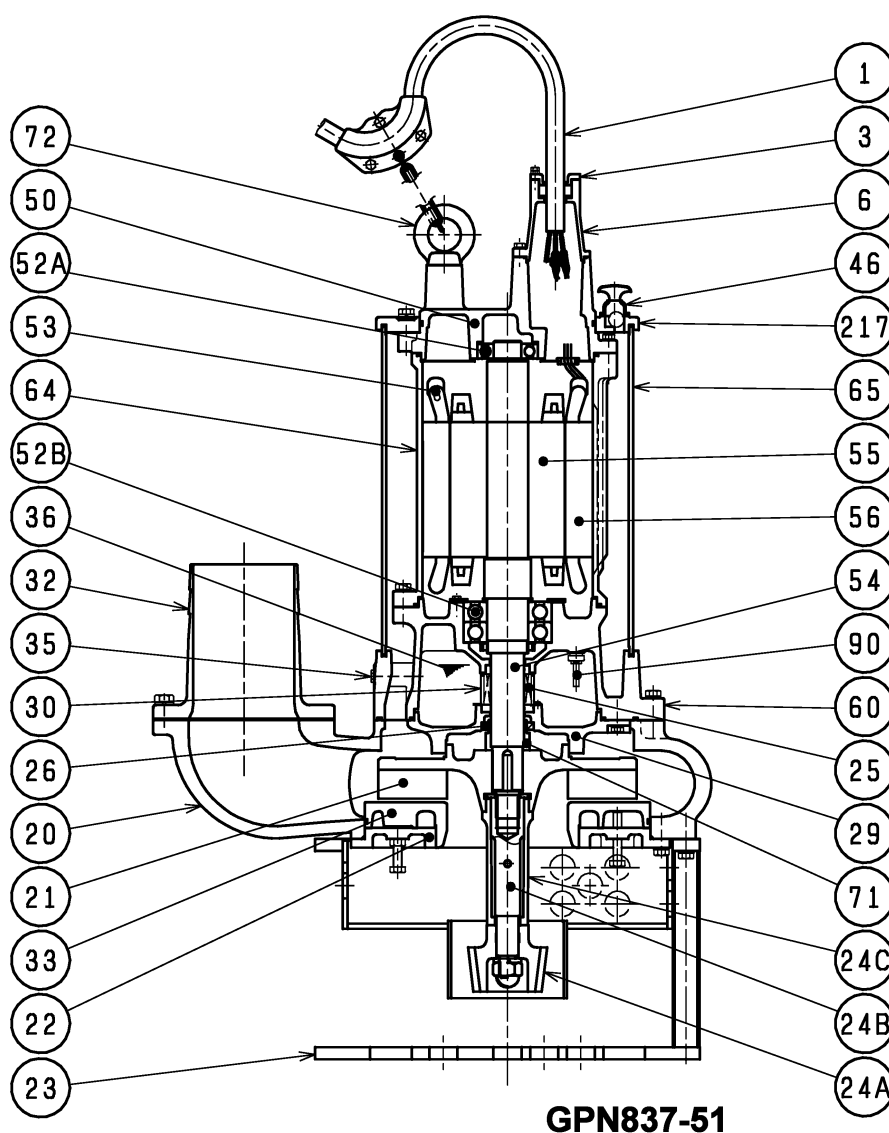
GPN837-51



CWL: Continuous running water level
LWL: Lowest running water level

Sectional drawing

GPN837-51



No.	Description	Remark	No.	Description	Remark
1	Cable	20m NSSHÖU	50	Motor cover	FC150 (EN-GJL-150)
3	Gland	FC200 (EN-GJL-200)	52A	Upper bearing	6310ZZC3
6	Stuffing box	FC200 (EN-GJL-200)	52B	Lower bearing	6315ZZD2C3
20	Pump casing	FC200 (EN-GJL-200)	53	Circle thermal protector (3x)	.
21	Impeller	Chromium iron casting	54	Shaft	DIN 1.7220 (chromium molybdenum)
22	Suction cover	FC200 (EN-GJL-200)	55	Rotor	.
23	Strainer	Steel plate / steel pipe	56	Stator	.
24A	Agitator	Chromium iron casting	60	Bearing Housing	FC150 (EN-GJL-150)
24B	Connection rod	Construction steel SS400	64	Motor Frame	FC150 (EN-GJL-150)
24C	Verbindungsstück Abdeckung	Nodular graphite iron	65	Outer Cover	Steel plate SPCC
25	Mechanical seal	H-60	71	Shaft protection sleeve	SUS403 (EN-X6Cr13)
26	Oil seal	TC709513	72	Eye screw	Construction steel SS400
29	Oil casing	FC200 (EN-GJL-200)	90	Density sensor	.
50	Oil distributor	Steel plate	217	Fixing plate	FC150 (EN-GJL-150)
32	Discharge coupling	FC200 (EN-GJL-200)			
33	Suction cover	Chromium iron casting			
35	Oil screw	SUS304 (EN-X5CrNi18-10)			
36	Lubricant	Turbine oil (ISO VG32)			
46	Air vent valve	Steel plate			