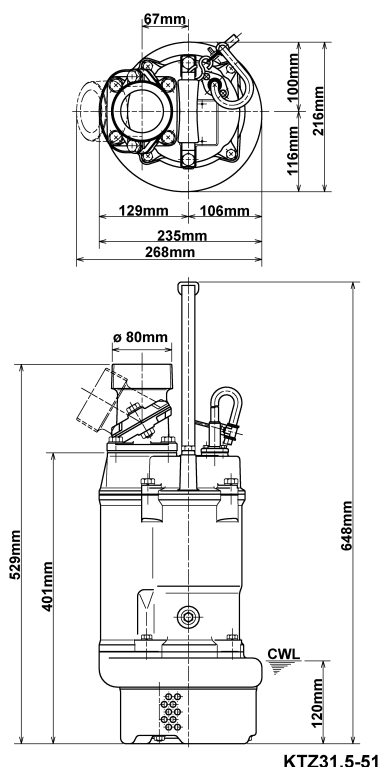
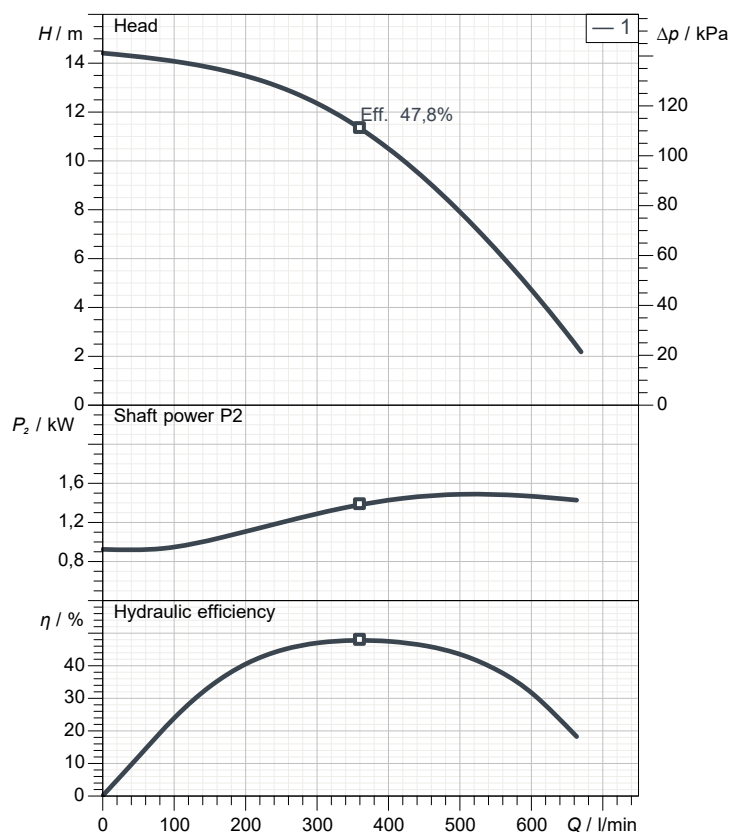


# Data sheet KTZ31.5-51



CWL: Continuous running water level



## Specification

Electric submersible pump KTZ-series

Degree of protection IP 68

Pressure resistance max. 25 m

Type of impeller Semi-open

Max. solid handling 8,5 mm

Suitable for:

spring-/rain-/waste-/ground water, water containing sand

## Electric motor

Dry-type submersible induction motor

Insulation class F 2Poles 2.840 1/min

Starting mode Direct starting

Rated voltage 400 V 50 Hz 3~

Power uptake 2,17 kW

Rated power 1,50 kW

Rated current 3,5 A

Start current 22,0 A

## Cable

20m NSSHÖU 4Cx1,5mm<sup>2</sup>

## 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 HiCrFC  |
| Pump casing   | FC200 (EN-GJL-200)    |
| Suction cover | FCD50 (EN-GJS-500-7)  |
| Motor Frame   | FC150 (EN-GJL-150)    |
| Shaft         | SUS420J2 (EN-X30Cr13) |

## Discharge size

3" (80mm) BS-Coupling / Hose Coupling (optional)

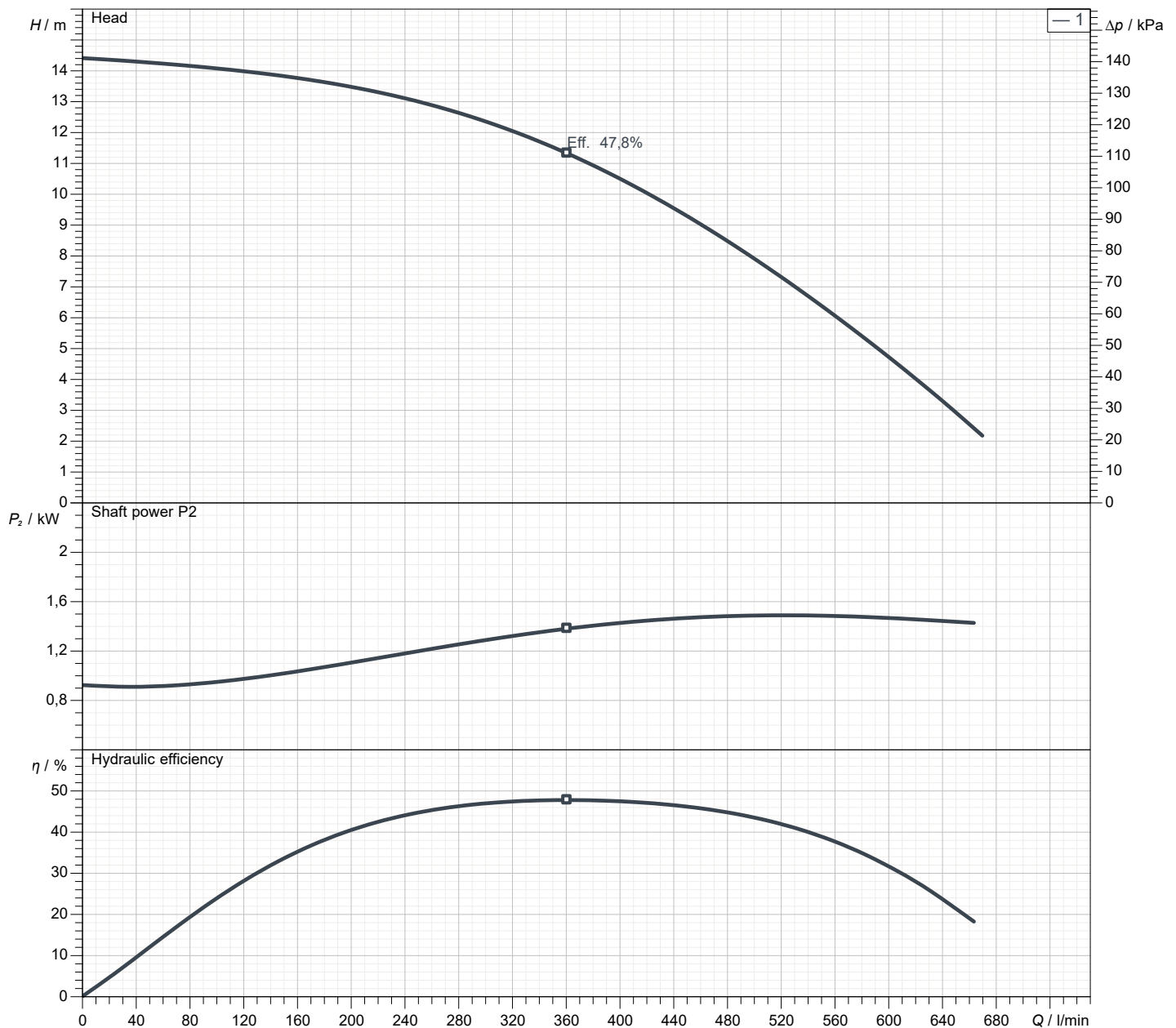
## Weight

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

# Performance curve

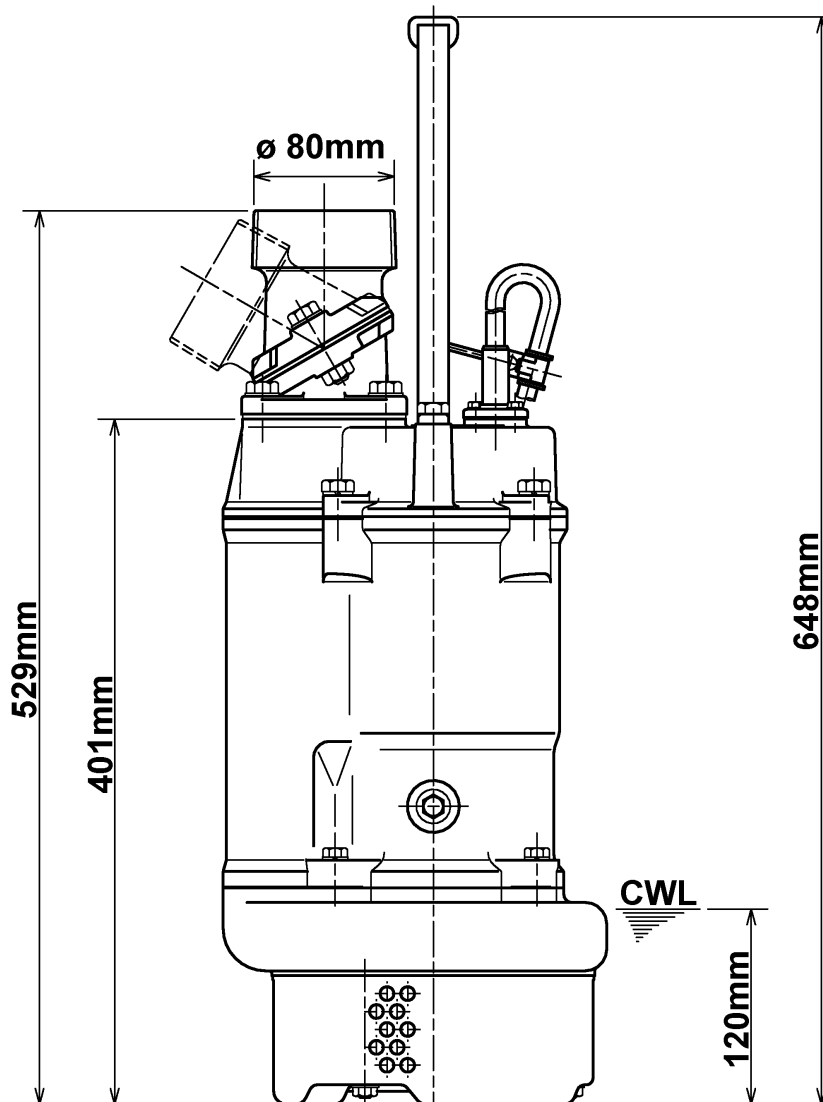
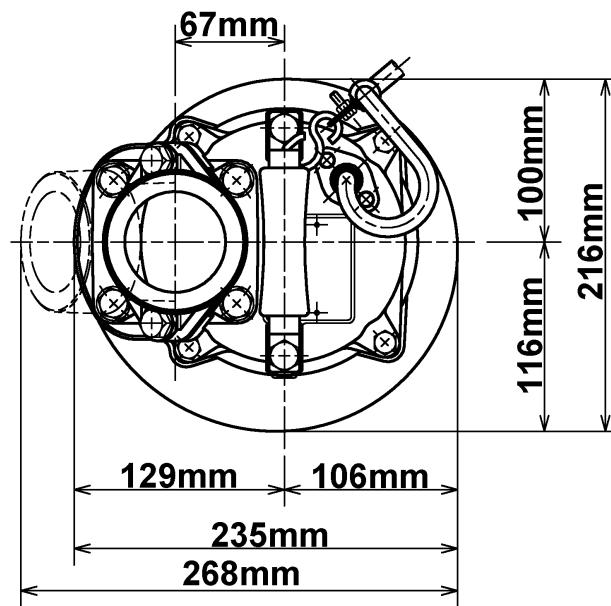
## KTZ31.5-51

|                  |                 |
|------------------|-----------------|
| Discharge port   | 3"              |
| Head             | 14,4 m          |
| Flow             | 669,7 l/min     |
| Rated power      | 1,50 kW         |
| Power input      | 2,17 kW         |
| Phases           | 3~              |
| Voltages         | 400 V           |
| Frequency        | 50 Hz           |
| Rated current    | 3,5 A           |
| Starting current | 22,02 A         |
| Number of poles  | 2               |
| Speed            | 2.840 1/min     |
| Starting mode    | Direct starting |
| Insulation class | F               |



# Dimensions

## KTZ31.5-51

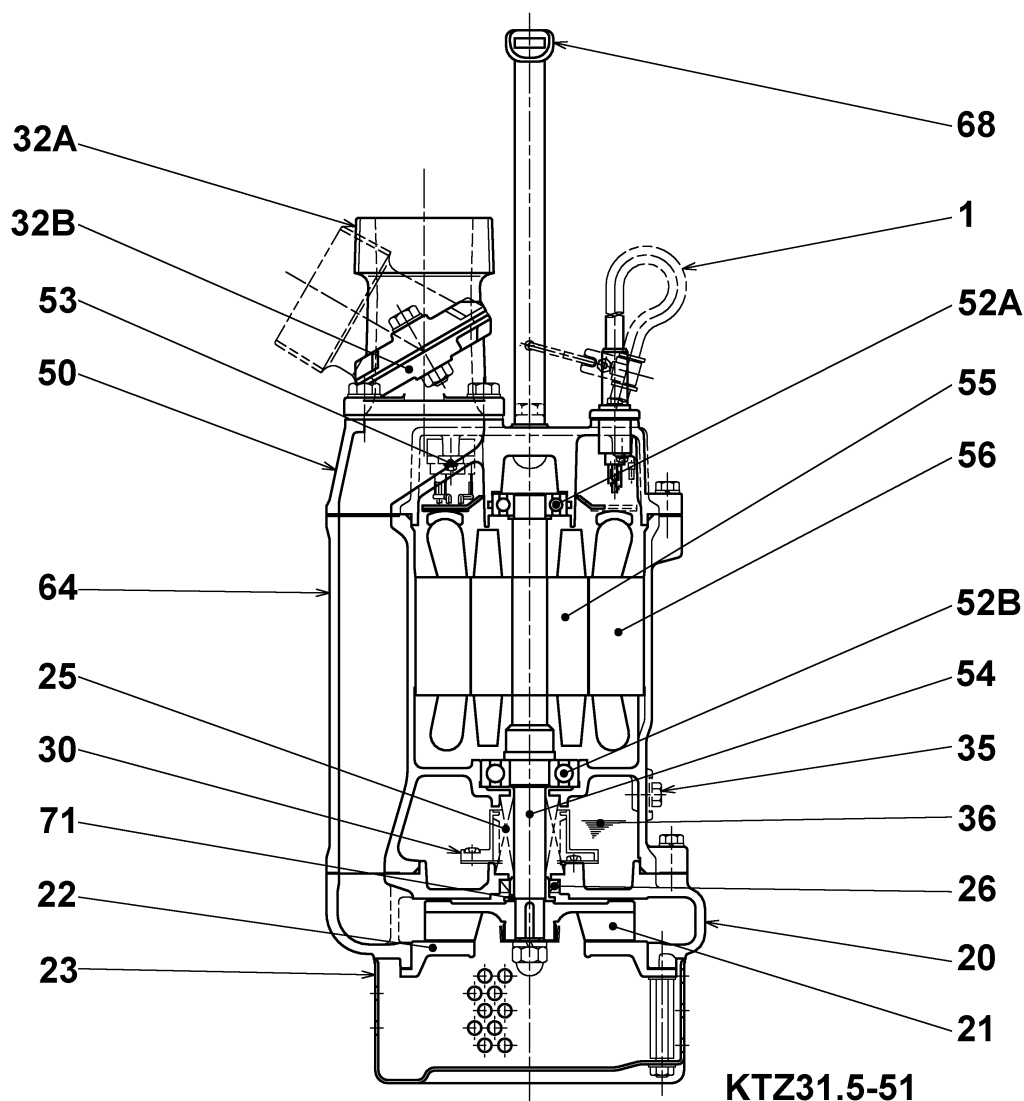


**KTZ31.5-51**

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

# Sectional drawing

## KTZ31.5-51



| No. | Description                       | Remark                  | No. | Description             | Remark                  |
|-----|-----------------------------------|-------------------------|-----|-------------------------|-------------------------|
| 1   | Cable                             | 20m NSSHÖU              | 55  | Rotor                   | .                       |
| 20  | Pump casing                       | FC200 (EN-GJL-200)      | 56  | Stator                  | .                       |
| 21  | Impeller                          | Chromium Iron HiCrFC    | 64  | Motor Frame             | FC150 (EN-GJL-150)      |
| 22  | Suction cover                     | FCD50 (EN-GJS-500-7)    | 68  | Handle                  | Steelplate and rubber   |
| 23  | Strainer                          | Steel plate             | 71  | Shaft protection sleeve | SUS304 (EN-X5CrNi18-10) |
| 25  | Mechanical seal                   | H-20T                   |     |                         |                         |
| 26  | Oil seal                          | DD25388                 |     |                         |                         |
| 30  | Oil distributor                   | Plastic                 |     |                         |                         |
| 32  | Discharge coupling                | Aluminium die casting   |     |                         |                         |
| 35  | Oil screw                         | SUS304 (EN-X5CrNi18-10) |     |                         |                         |
| 36  | Lubricant                         | Turbine oil (ISO VG32)  |     |                         |                         |
| 50  | Main cover                        | FC150 (EN-GJL-150)      |     |                         |                         |
| 52A | Upper bearing                     | 6204ZZC3                |     |                         |                         |
| 52B | Lower bearing                     | 6305ZZC3                |     |                         |                         |
| 53  | Motor Protector 380/400/415V-50Hz | KA314-HRXL00 (H.C)      |     |                         |                         |
| 54  | Shaft                             | SUS420J2 (EN-X30Cr13)   |     |                         |                         |