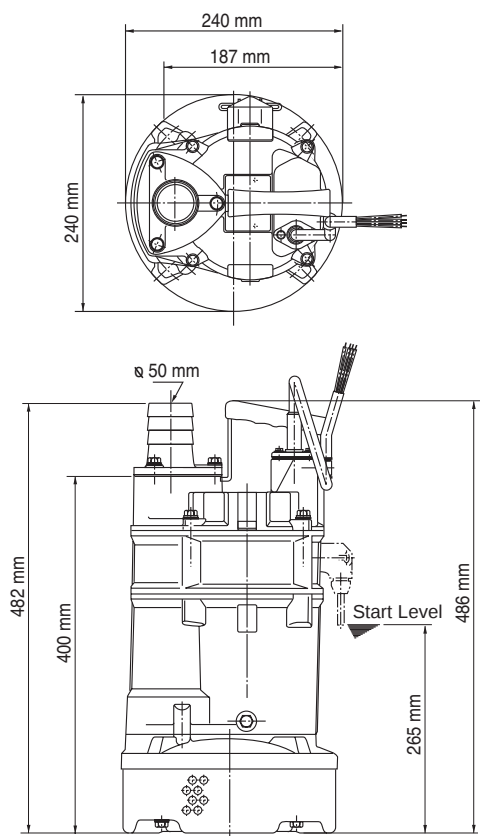
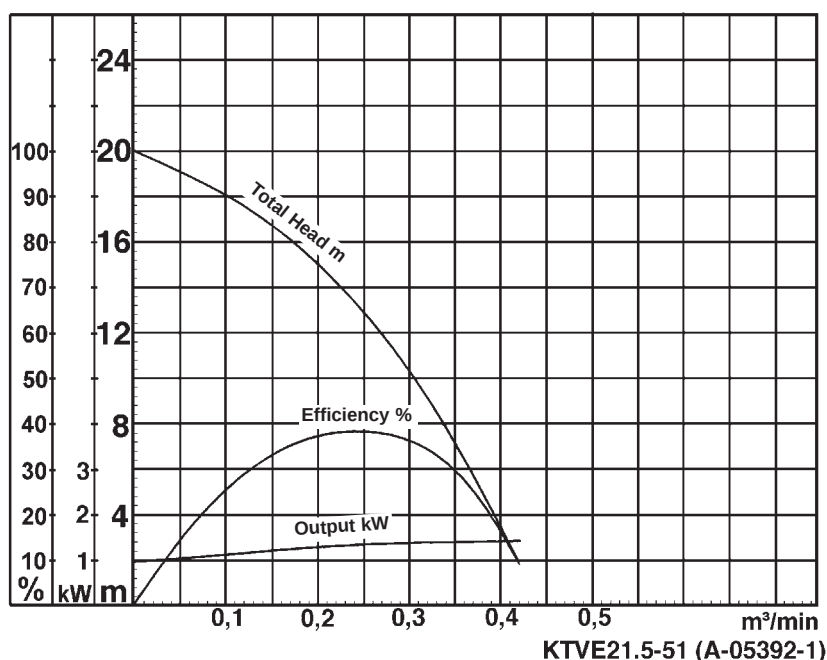


# Data Sheet KTVE21.5-51



KTVE21.5-51



## Classification

Automatic electric submersible pump with water sensor (electrode)  
Protection class IP68  
Depth of submersion max. 50m  
Semi-vortex impeller  
Max. solid handling 8,5mm  
Suitable for rain water, ground water, sand carrying water

## Electric Motor

Dry-type submersible induction motor,  
Insulation class E, 2 poles, 2870 r.p.m.  
Direct on line start  
Voltage: 400V, 50Hz, 3-phase  
Power input: 2,04kW  
Power output: 1,50kW  
Nominal current: 3,3A  
Start current: 19,0A

## Electric Cable

20m H07RN-F 4Cx1,5mm²

## Motor Protection

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

## Shaft Seal

Double mechanical seal in oil bath  
additional lubrication by oil lifting device  
Primary Seal:  
silicon carbide on silicon carbide  
Secondary Seal:  
silicon carbide on carbon

## Bearings

Shielded ball bearings, maintenance-free

## Materials

Impeller: FCD700 (EN-GJS-700-2)  
Casing: Synthetic rubber  
Motor frame: Aluminium alloy casting ADC12  
Shaft: SUS403 (EN-X6Cr13)

## Discharge Connection

2" (50mm) hose coupling

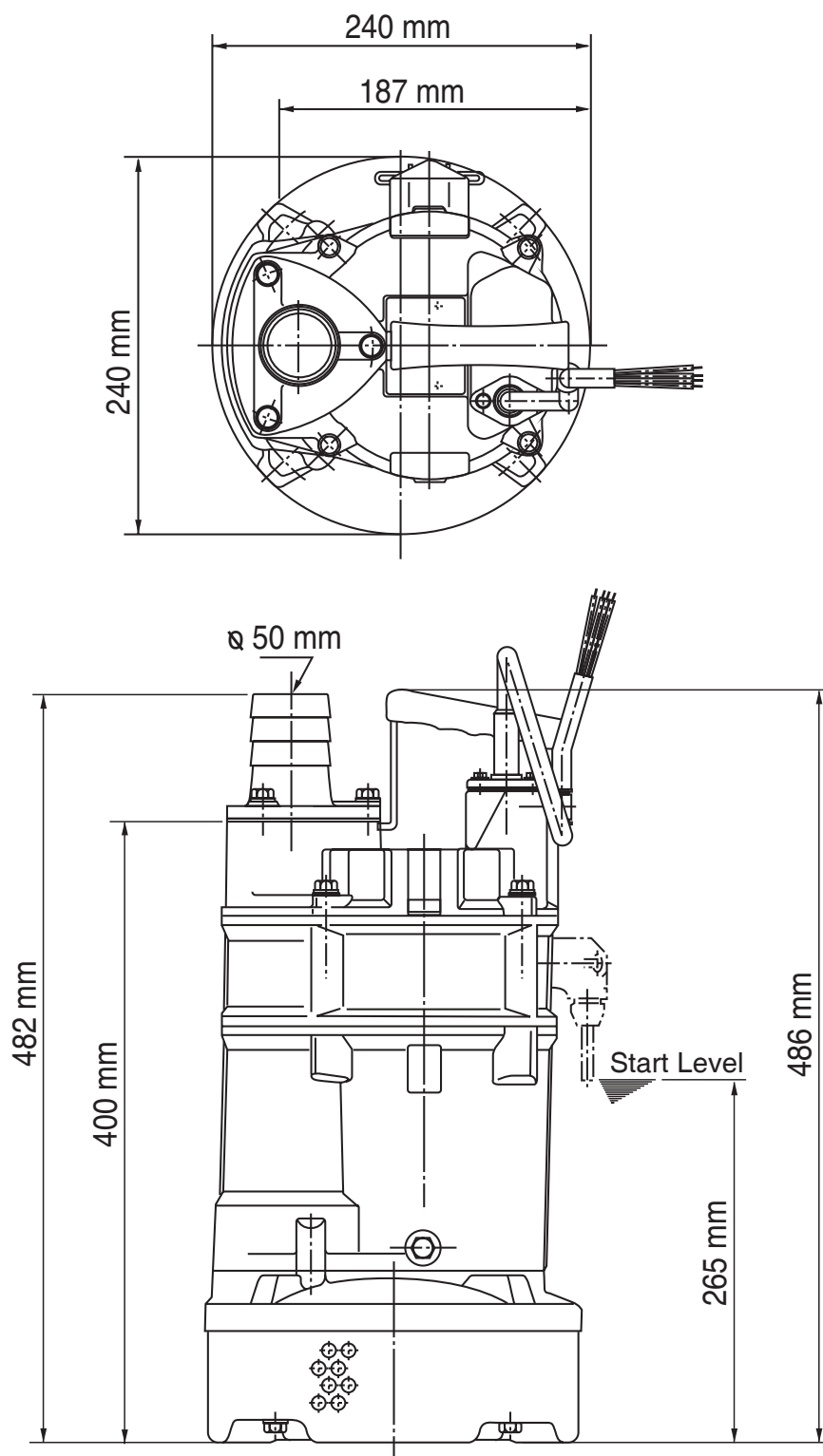
## Weight

21,5 kg (dry weight of the pump without cable)

## Special Feature

level control by water sensors (electrodes)

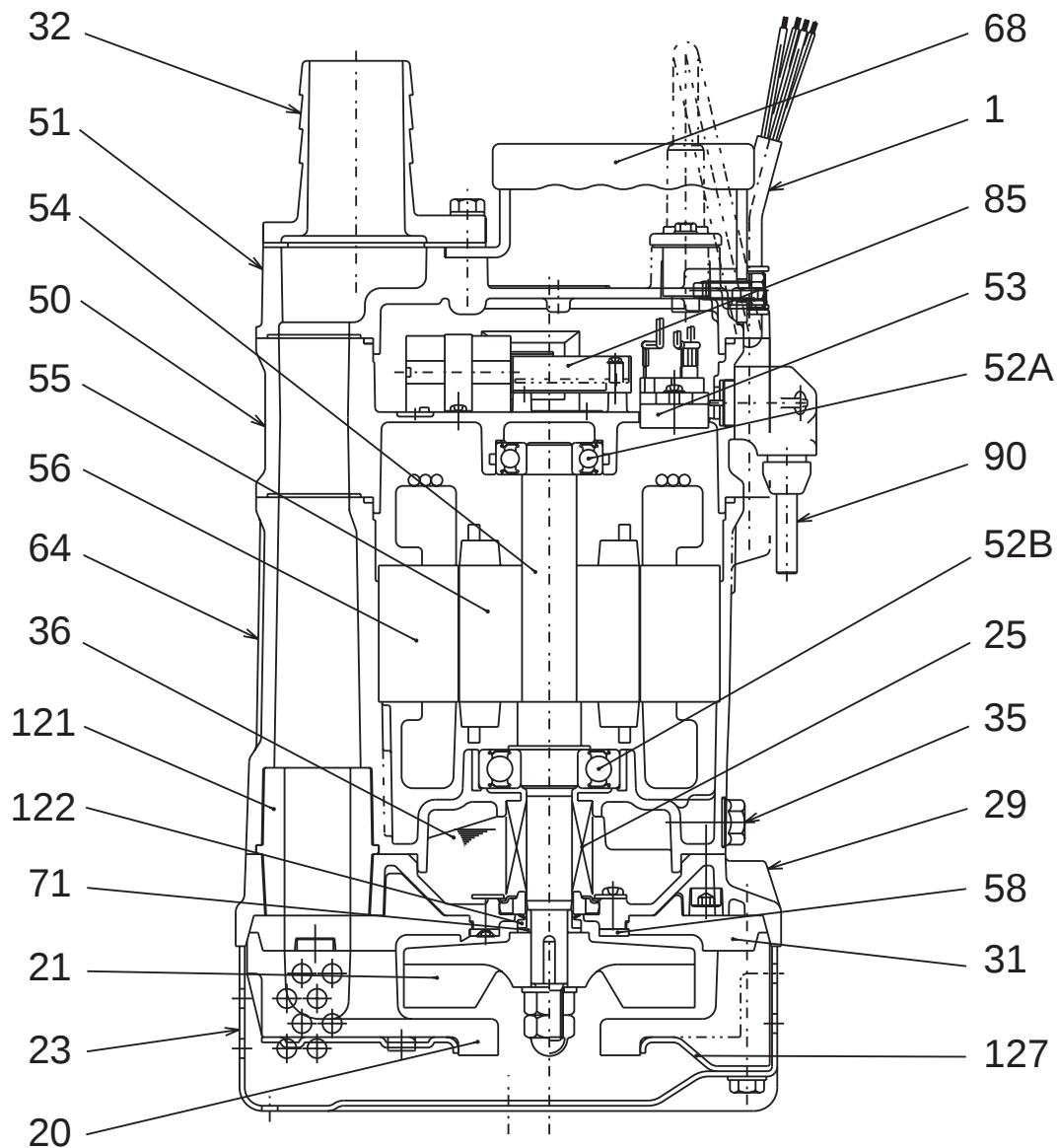
# Dimensional Drawing KTVE21.5-51



**KTVE21.5-51**

# Sectional Drawing

## KTVE21.5-51



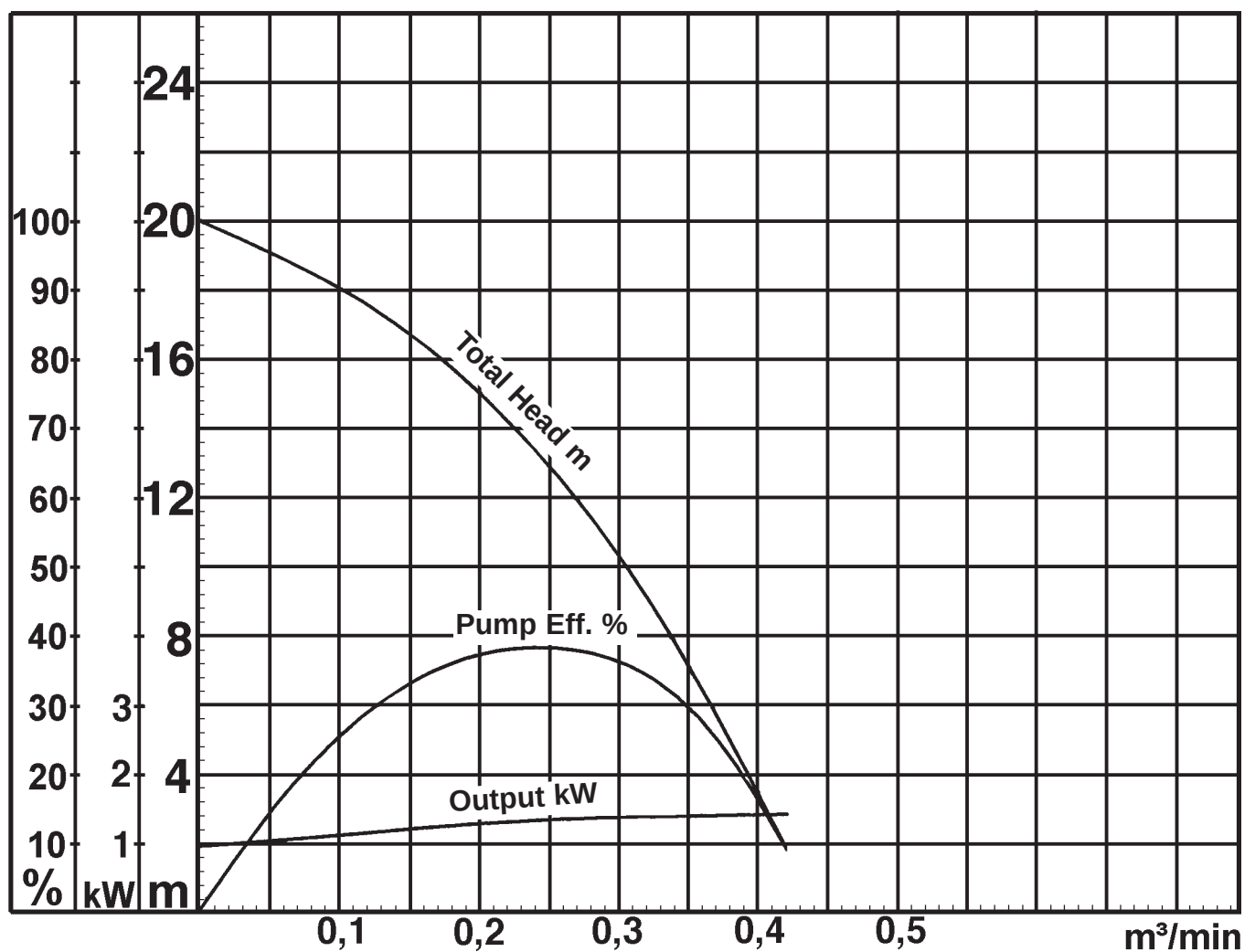
**KTVE21.5-51**

| No. | Description     | Qty. | Remarks                  | No. | Description      | Qty. | Remarks                       |
|-----|-----------------|------|--------------------------|-----|------------------|------|-------------------------------|
| 1   | Cabtyre Cable   | 1    | H07RN-F                  | 53  | Motor Protector  | 1    |                               |
| 20  | Pump Casing     | 1    | Butadiene/Nitrile Rubber | 54  | Shaft            | 1    | SUS403 (EN-X6Cr13)            |
| 21  | Impeller        | 1    | FCD700 (EN-GJS-700-2)    | 55  | Rotor            | 1    |                               |
| 23  | Strainer        | 1    | Steel Plate SPCC         | 56  | Stator           | 1    |                               |
| 25  | Mechanical Seal | 1    | H-20                     | 58  | Protection Plate | 1    | SUS304 (EN-X5CrNi18-10)       |
| 29  | Oil Casing      | 1    | Aluminium Die Casting    | 64  | Motor Frame      | 1    | Aluminium Alloy Casting ADC12 |
| 31  | Wearing Plate   | 1    | Butadiene/Nitrile Rubber | 68  | Handle           | 1    | Steel Plate SPC/Rubber NBR    |
| 32  | Hose Coupling   | 1    | Aluminium Die Casting    | 71  | Shaft Sleeve     | 1    | SUS304 (EN-X5CrNi18-10)       |
| 35  | Oil Plug        | 1    | SUS304 (EN-X5CrNi18-10)  | 85  | Relay Unit       | 1    |                               |
| 36  | Lubricant       |      | Turbine Oil (ISO VG32)   | 90  | Electrode        | 1    |                               |
| 50  | Motor Bracket   | 1    | Aluminium Die Casting    | 121 | Duct Sleeve      | 1    | Styrene Butadiene Rubber      |
| 51  | Head Cover      | 1    | Aluminium Die Casting    | 122 | V-Seal           | 1    | Nitrile Butadien Rubber       |
| 52A | Upper Bearing   | 1    | 6204ZZC3                 | 127 | Fixing Plate     | 1    | Steel Plate SPCC              |
| 52B | Lower Bearing   | 1    | 6305ZZC3                 |     |                  |      |                               |

# Pump Performance Curve

## KTVE21.5-51

|                  |                  |
|------------------|------------------|
| Discharge Bore   | 50 mm            |
| Total Head       | 15,0 m           |
| Capacity         | 0,2 m³/min       |
| Motor Output     | 1,50 kW          |
| Motor Input      | 2,04 kW          |
| Phase            | 3                |
| Voltage          | 400 V            |
| Frequency        | 50 Hz            |
| Rated Current    | 3,3 A            |
| Starting Current | 19,0 A           |
| Poles            | 2                |
| Revolution       | S.S. 2870 r.p.m. |
| Starting Method  | direct on line   |
| Insulation Class | E                |



KTVE21.5-51 (A-05392-1)