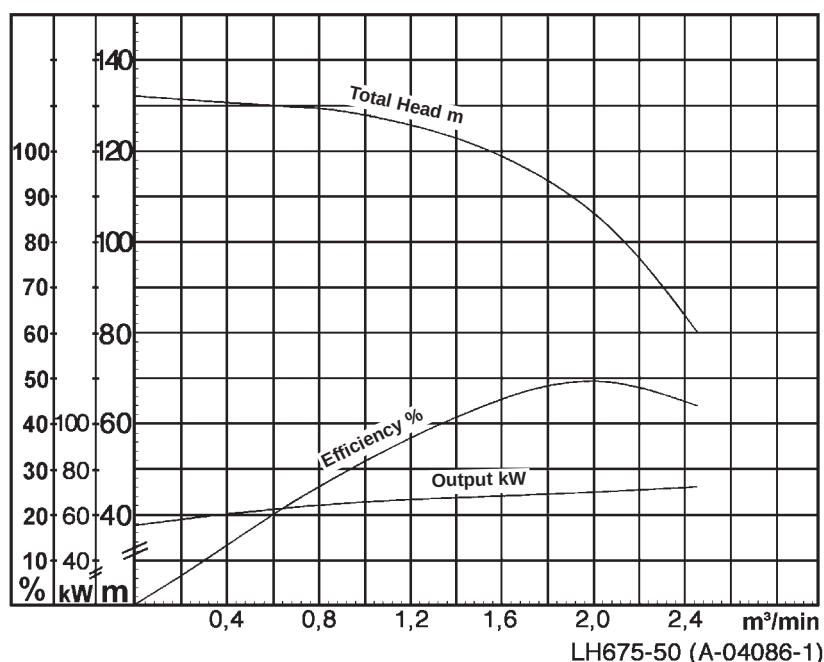
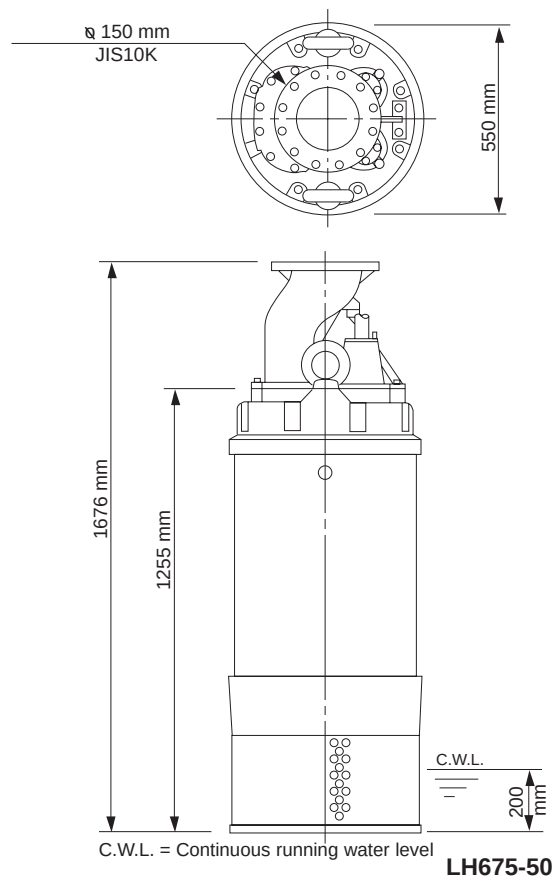


# Data Sheet LH675-50



## Classification

Electric submersible pump  
Protection class IP68  
Depth of submersion max. 50m  
Closed type impeller  
Max. solid handling 6mm  
Suitable for rain water, ground water, sand carrying water

## Electric Motor

Dry-type submersible induction motor,  
Insulation class F, 2 poles, 2935 r.p.m.  
Star / delta start  
Voltage: 400V, 50Hz, 3-phase  
Power input: 82,9kW  
Power output: 75,0kW  
Nominal current: 130A  
Start current: 1140A

## Electric Cable

20m 6Cx30mm²/1Cx22mm²/3Cx2mm²

## Motor Protection

Miniature protectors in windings  
(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 silicon carbide

## Bearings

Shielded ball bearings, maintenance-free

## Materials

|              |                       |
|--------------|-----------------------|
| Impeller:    | Chromium iron casting |
| Casing:      | FC200 (EN-GJL-200)    |
| Mouth ring:  | Chromium iron casting |
| Motor frame: | FC200 (EN-GJL-200)    |
| Shaft:       | SUS420J2 (EN-X30Cr13) |

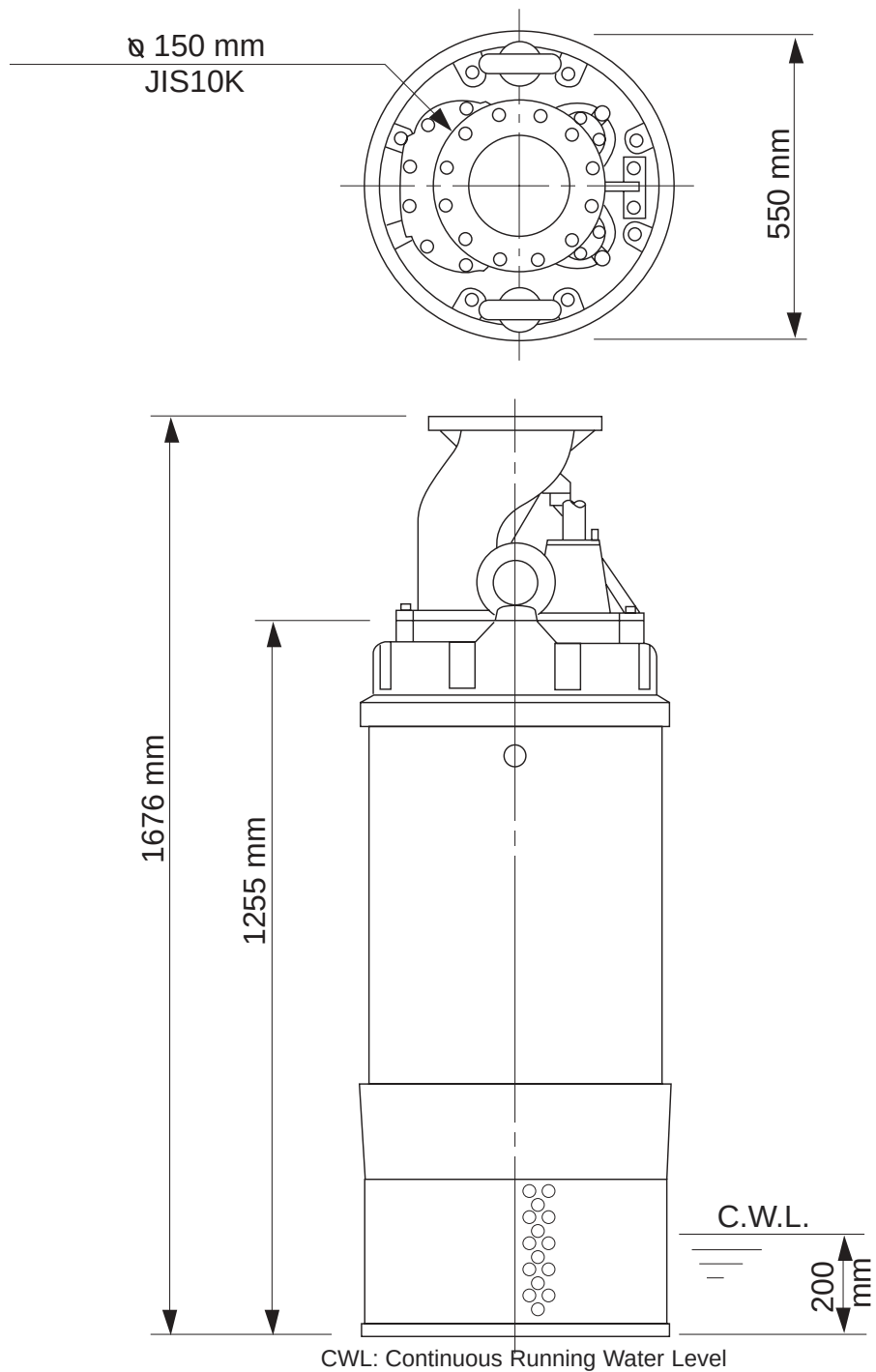
## Discharge Connection

6" (150mm) JIS 20K flange

## Weight

850 kg (dry weight of the pump without cable)

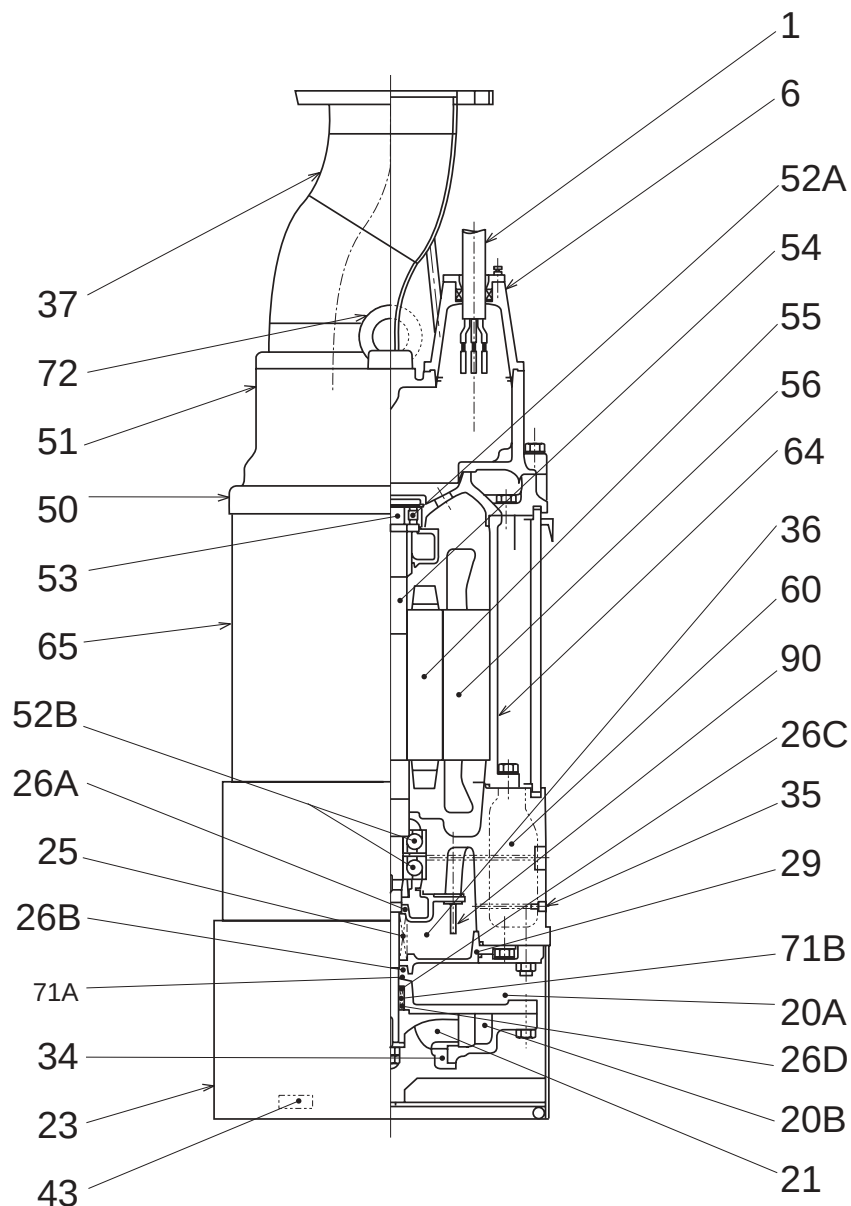
# Dimensional Drawing LH675-50



CWL: Continuous Running Water Level

**LH675-50**

# Sectional Drawing LH675-50



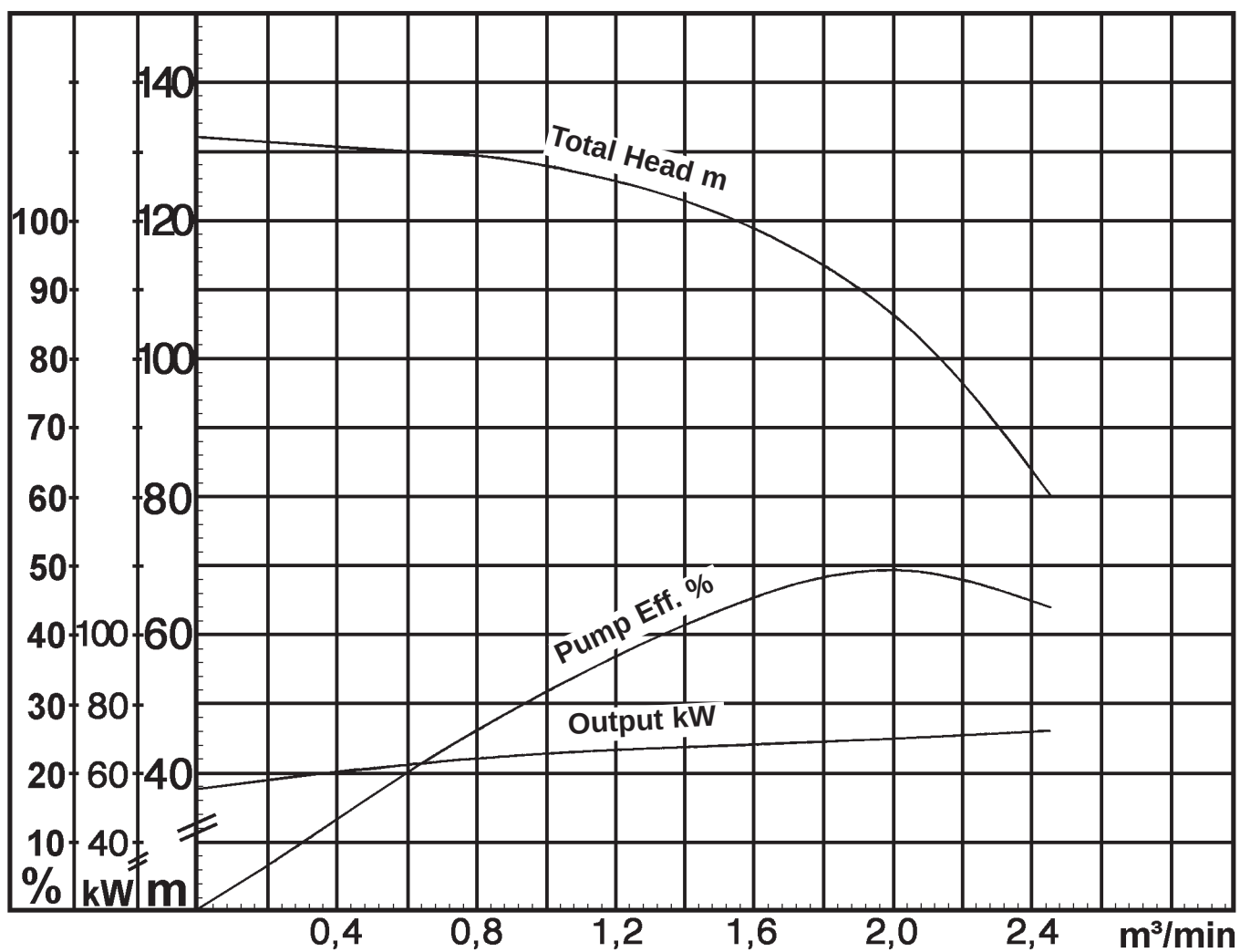
LH675-50

| No. | Description       | Qty. | Remarks                                                             | No. | Description               | Qty. | Remarks               |
|-----|-------------------|------|---------------------------------------------------------------------|-----|---------------------------|------|-----------------------|
| 1   | Cabtyre Cable     | 1    | 20m 6Cx30mm <sup>2</sup> /1Cx22mm <sup>2</sup> /2Cx2mm <sup>2</sup> | 43  | Cathodic Protection Plate | 3    | Aluminium Alloy ALAP  |
| 6   | Stuffing Box      | 1    | FC200 (EN-GJL-200)                                                  | 50  | Motor Bracket             | 1    | FC200 (EN-GJL-200)    |
| 20A | Pump Casing upper | 1    | FC200 (EN-GJL-200)                                                  | 51  | Head Cover                | 1    | FC200 (EN-GJL-200)    |
| 20B | Pump Casing lower | 1    | FC200 (EN-GJL-200)                                                  | 52A | Upper Bearing             | 1    | NU310C3               |
| 21  | Impeller          | 1    | Chromium Iron Casting HiCrFC                                        | 52B | Lower Bearing             | 1    | 7313BTDBC3            |
| 23  | Strainer Stand    | 1    | SS400 (DIN 1.0040)                                                  | 53  | Motor Protector           | 3    |                       |
| 25  | Mechanical Seal   | 1    | H-50T                                                               | 54  | Shaft                     | 1    | SUS420J2 (EN-X30Cr13) |
| 26A | Oil Seal          | 1    | TC60759                                                             | 55  | Rotor                     | 1    |                       |
| 26B | Oil Seal          | 1    | TC557812                                                            | 56  | Stator                    | 1    |                       |
| 26C | Oil Seal          | 1    | TCN557812                                                           | 60  | Bearing Housing           | 1    | FC200 (EN-GJL-200)    |
| 26D | Labyrinth Ring    | 1    | SUS304 (EN-X5CrNi18-10)                                             | 64  | Motor Frame               | 1    | FC200 (EN-GJL-200)    |
| 29  | Oil casing        | 1    | FC200 (EN-GJL-200)                                                  | 65  | Outer Cover               | 1    | Carbon Steel STKM     |
| 34  | Suction Mouth     | 1    | Chromium Iron Casting HiCrFC                                        | 71A | Upper Shaft Sleeve        | 1    | SUS403 (EN-X6Cr13)    |
| 35  | Oil Plug          | 2    | SUS304 (EN-X5CrNi18-10)                                             | 71B | Lower Shaft Sleeve        | 1    | SUS403 (EN-X6Cr13)    |
| 36  | Lubricant         |      | Turbine Oil (ISO VG32)                                              | 72  | Eyebolt                   | 1    | SS400 (DIN 1.0040)    |
| 37  | Discharge Pipe    | 1    | SS400 (DIN 1.0040)/Carbon Steel SGP                                 | 90  | Leakage Sensor Electrode  | 1    |                       |

# Pump Performance Curve

## LH675-50

|                  |                  |
|------------------|------------------|
| Discharge Bore   | 150 mm           |
| Total Head       | 120 m            |
| Capacity         | 1,5 m³/min       |
| Motor Output     | 75,0 kW          |
| Motor Input      | 82,9 kW          |
| Phase            | 3                |
| Voltage          | 400 V            |
| Frequency        | 50 Hz            |
| Rated Current    | 130 A            |
| Starting Current | 1140 A           |
| Poles            | 2                |
| Revolution       | S.S. 2935 r.p.m. |
| Starting Method  | star delta       |
| Insulation Class | F                |



LH675-50 (A-04086-1)