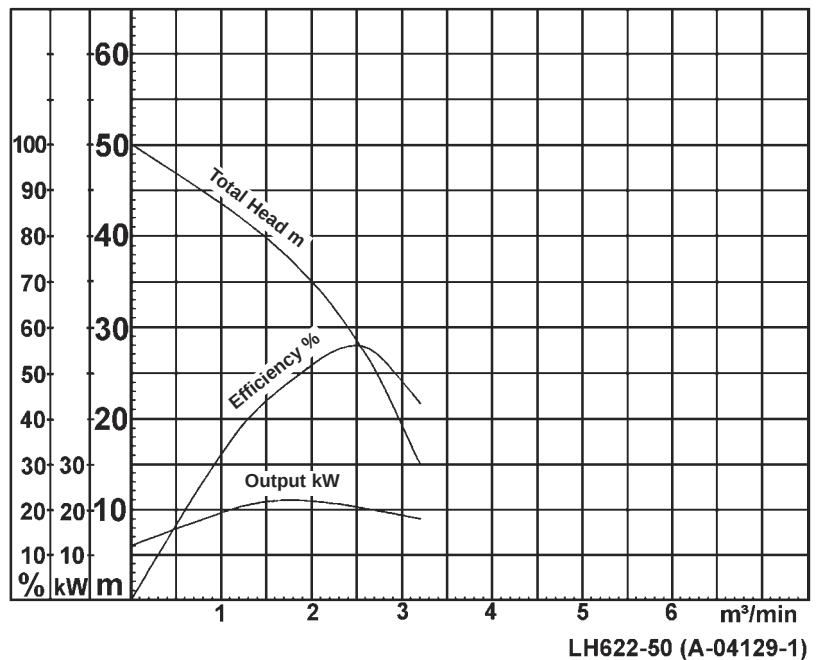
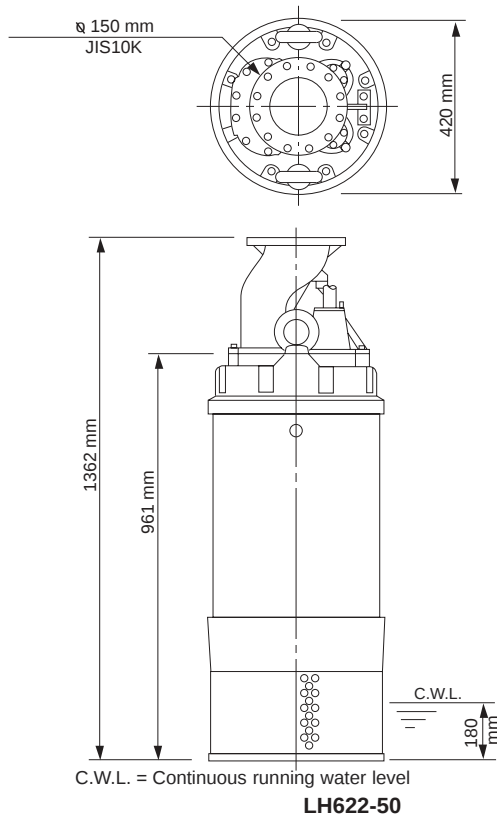


# Data Sheet LH622-50



## Classification

Electric submersible pump  
Protection class IP68  
Depth of submersion max. 100m  
Closed type impeller  
Max. solid handling 12mm  
Suitable for rain water, ground water, sand carrying water

## Electric Motor

Dry-type submersible induction motor,  
Insulation class B, 2 poles, 2850 r.p.m.  
Direct on line start  
Voltage: 400V, 50Hz, 3-phase  
Power input: 25,6kW  
Power output: 22,0kW  
Nominal current: 39,5A  
Start current: 288,5A

## Electric Cable

20m 4Cx14mm<sup>2</sup>

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

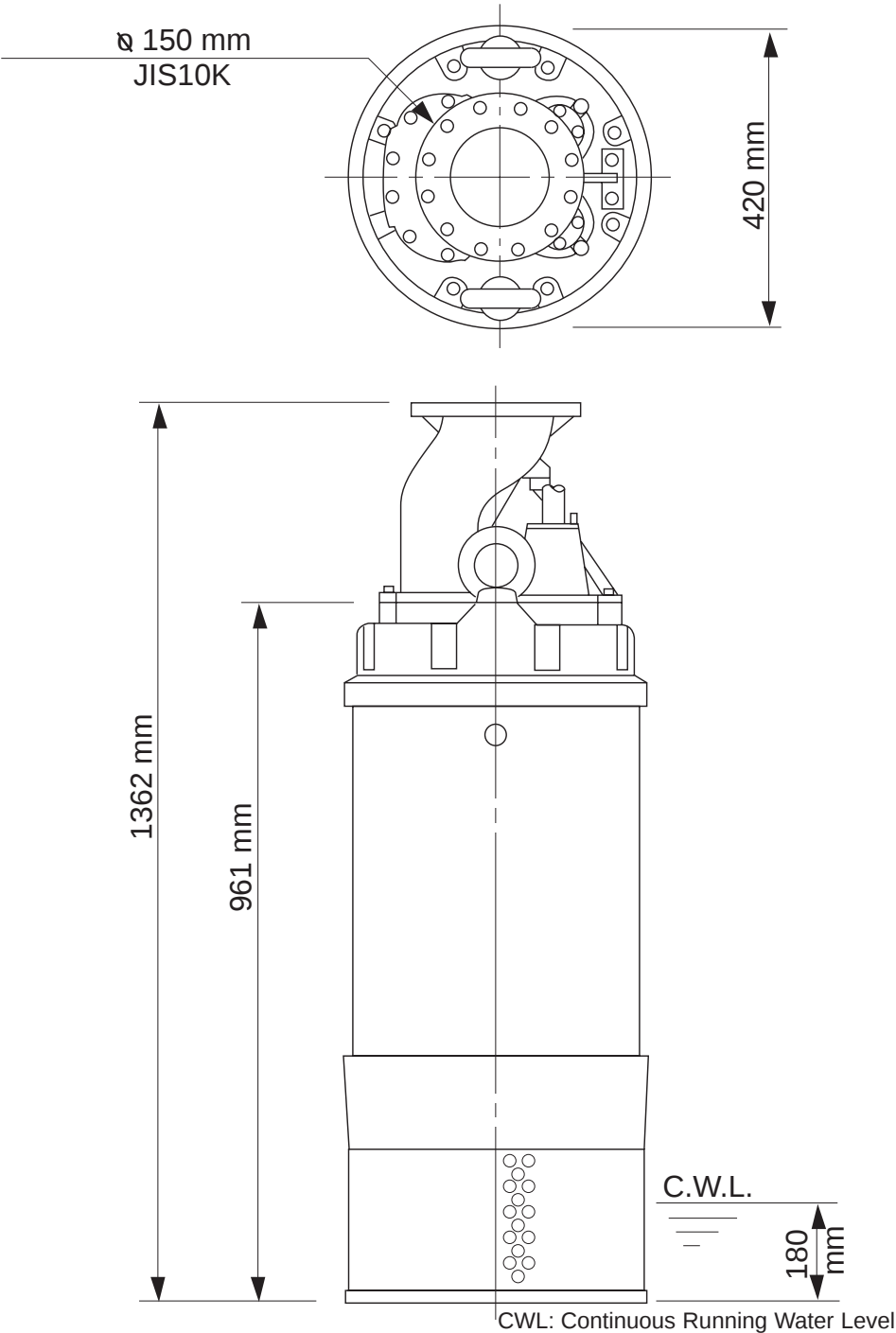
## Discharge Connection

6" (150mm) JIS 10K flange

## Weight

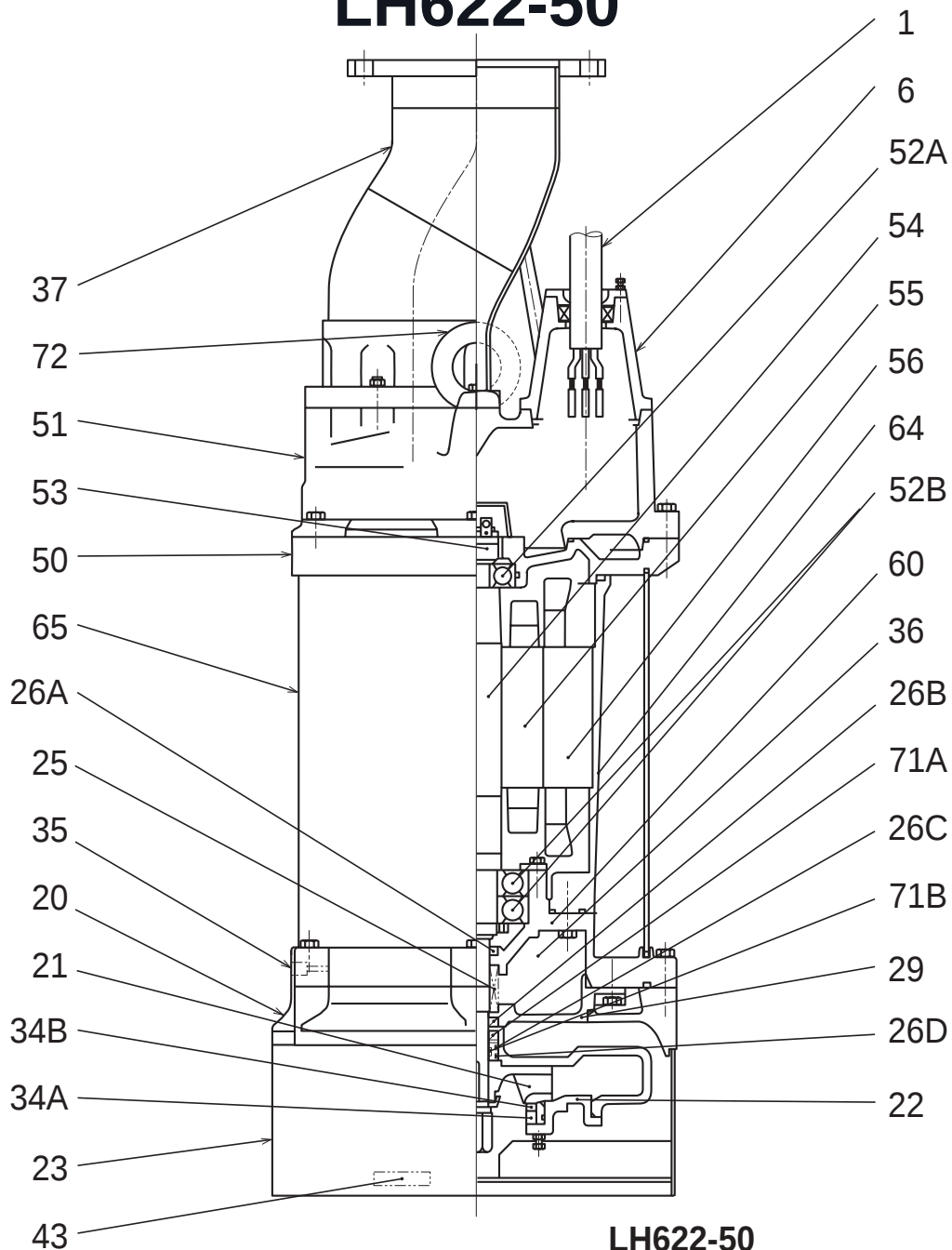
285 kg (dry weight of the pump without cable)

# Dimensional Drawing LH622-50



**LH622-50**

# Sectional Drawing LH622-50



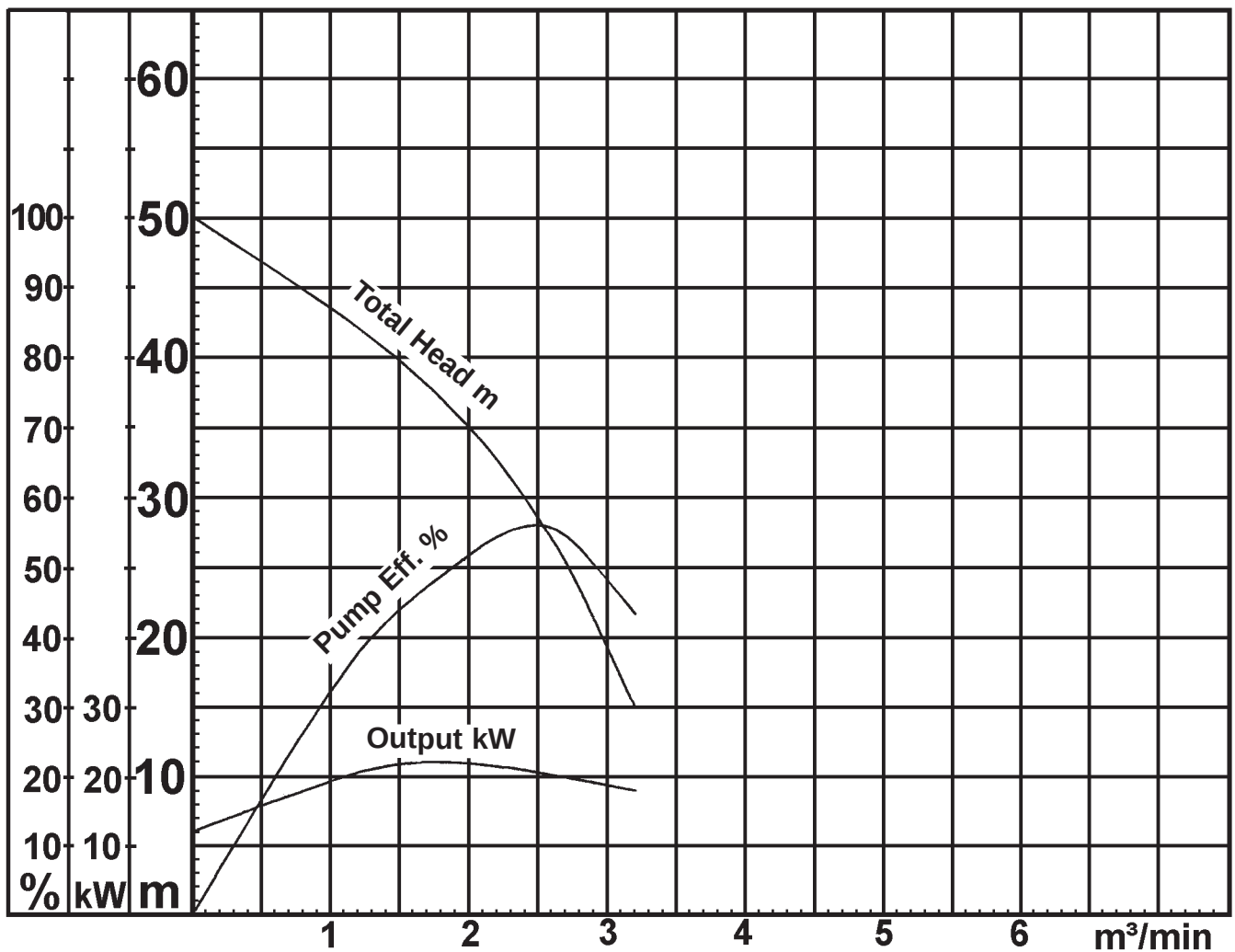
**LH622-50**

| No. | Description     | Qty. | Remarks                      | No. | Description               | Qty. | Remarks                             |
|-----|-----------------|------|------------------------------|-----|---------------------------|------|-------------------------------------|
| 1   | Cabtyre Cable   | 1    | 20m 4Cx14mm <sup>2</sup>     | 37  | Discharge Pipe            | 1    | SS400 (DIN 1.0040)/Carbon Steel SGP |
| 6   | Stuffing Box    | 1    | FC200 (EN-GJL-200)           | 43  | Cathodic Protection Plate | 3    | Aluminium Alloy ALAP                |
| 20  | Pump Casing     | 1    | FC200 (EN-GJL-200)           | 50  | Motor Bracket             | 1    | FC200 (EN-GJL-200)                  |
| 21  | Impeller        | 1    | Chromium Iron Casting HiCrFC | 51  | Head Cover                | 1    | FC200 (EN-GJL-200)                  |
| 22  | Suction Cover   | 1    | FC200 (EN-GJL-200)           | 52A | Upper Bearing             | 1    | 6307ZZC3                            |
| 23  | Strainer Stand  | 1    | SS400 (DIN 1.0040)           | 52B | Lower Bearing             | 1    | 6311ZZD2C3                          |
| 25  | Mechanical Seal | 1    | HT-3540                      | 53  | Motor Protector           | 1    |                                     |
| 26A | Oil Seal        | 1    | SC40588                      | 54  | Shaft                     | 1    | SUS420J2 ( EN-X30Cr13)              |
| 26B | Oil Seal        | 1    | TC385811                     | 55  | Rotor                     | 1    |                                     |
| 26C | Oil Seal        | 1    | TCN385811                    | 56  | Stator                    | 1    |                                     |
| 26D | Labyrinth Ring  | 1    | SUS403 (EN-X6Cr13)           | 60  | Bearing Housing           | 1    | FC200 (EN-GJL-200)                  |
| 29  | Oil casing      | 1    | FC200 (EN-GJL-200)           | 64  | Motor Frame               | 1    | FC200 (EN-GJL-200)                  |
| 34A | Suction Mouth   | 1    | FC200 (EN-GJL-200)           | 65  | Outer Cover               | 1    | SS400 (DIN 1.0040)                  |
| 34B | Mouth Ring      | 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                   | 2    | SS400 (DIN 1.0040)                  |

# Pump Performance Curve

## LH622-50

|                  |                         |
|------------------|-------------------------|
| Discharge Bore   | 150 mm                  |
| Total Head       | 35,0 m                  |
| Capacity         | 2,0 m <sup>3</sup> /min |
| Motor Output     | 22,0 kW                 |
| Motor Input      | 25,6 kW                 |
| Phase            | 3                       |
| Voltage          | 400 V                   |
| Frequency        | 50 Hz                   |
| Rated Current    | 39,5 A                  |
| Starting Current | 288,5 A                 |
| Poles            | 2                       |
| Revolution       | S.S. 2850 r.p.m.        |
| Starting Method  | direct on line          |
| Insulation Class | B                       |



**LH622-50 (A-04129-1)**