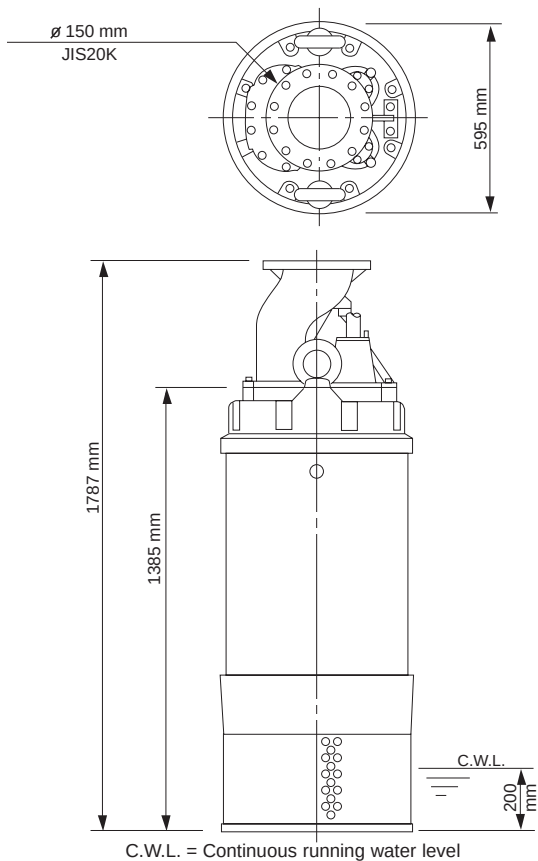
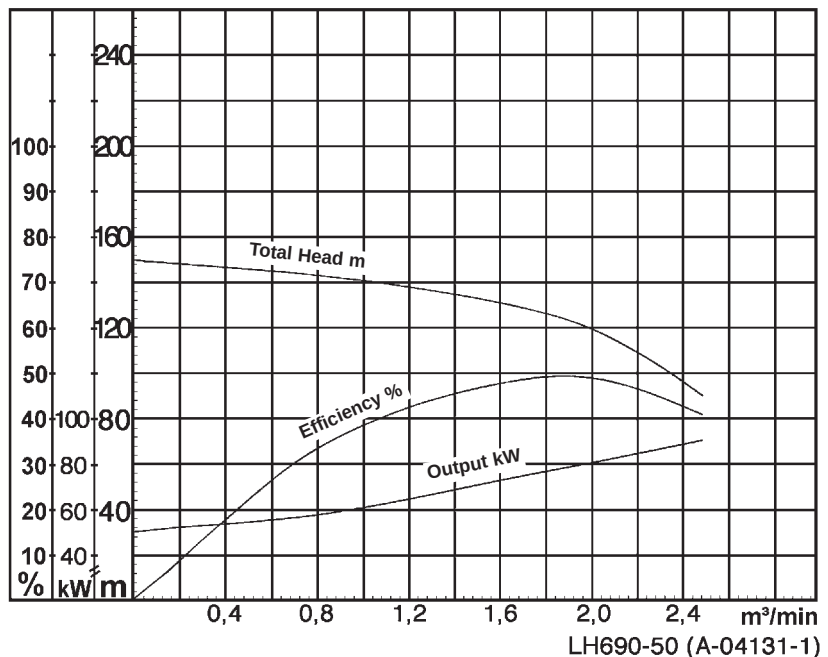


Data Sheet LH690-50



LH690-50



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, 2920 r.p.m.
Star / delta start
Voltage: 400V, 50Hz, 3-phase
Power input: 98,9kW
Power output: 90,0kW
Nominal current: 166A
Start current: 1100A

Electric Cable

20m 7Cx38mm²/3Cx38mm²

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)

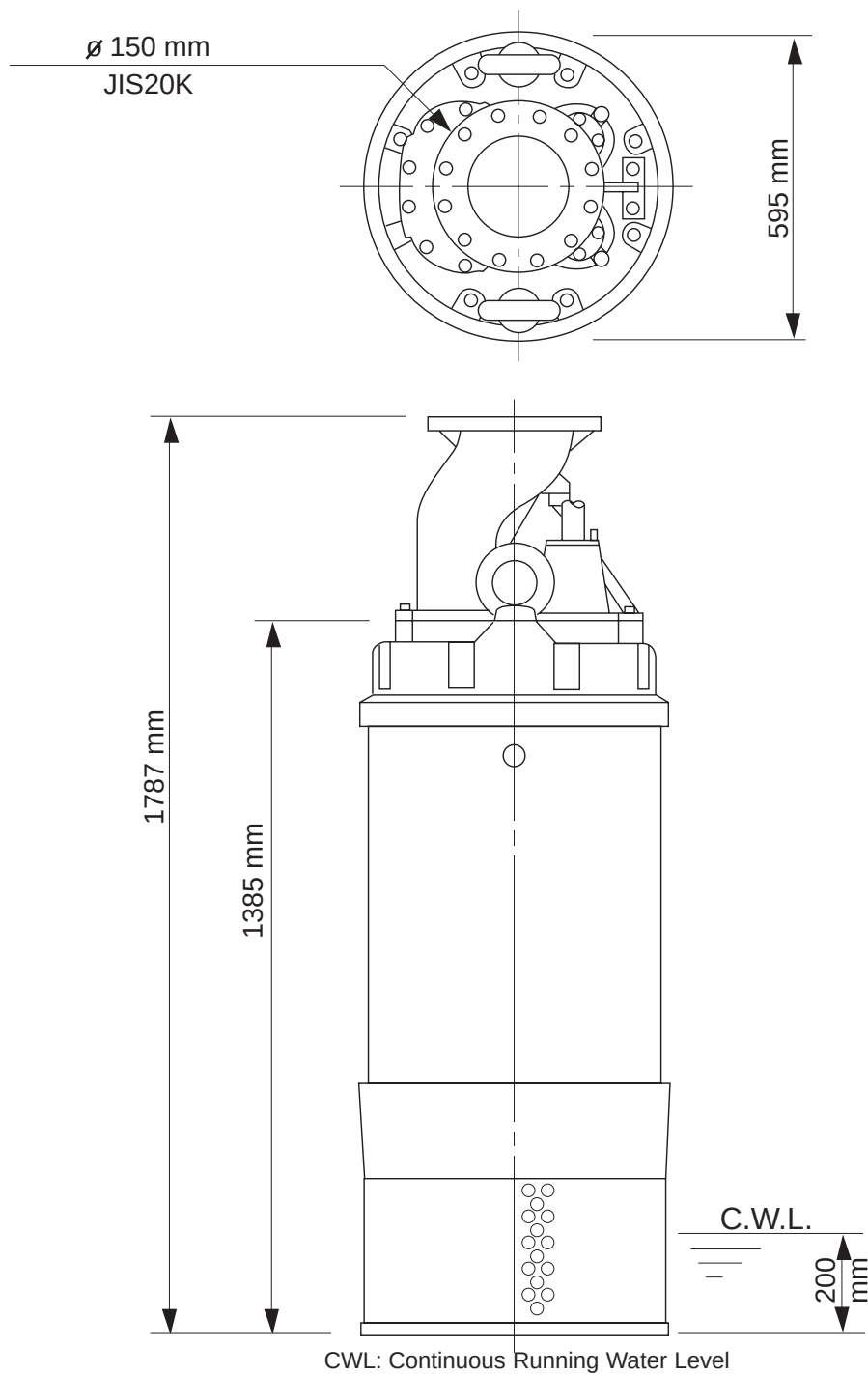
Discharge Connection

6" (150mm) JIS 20K flange

Weight

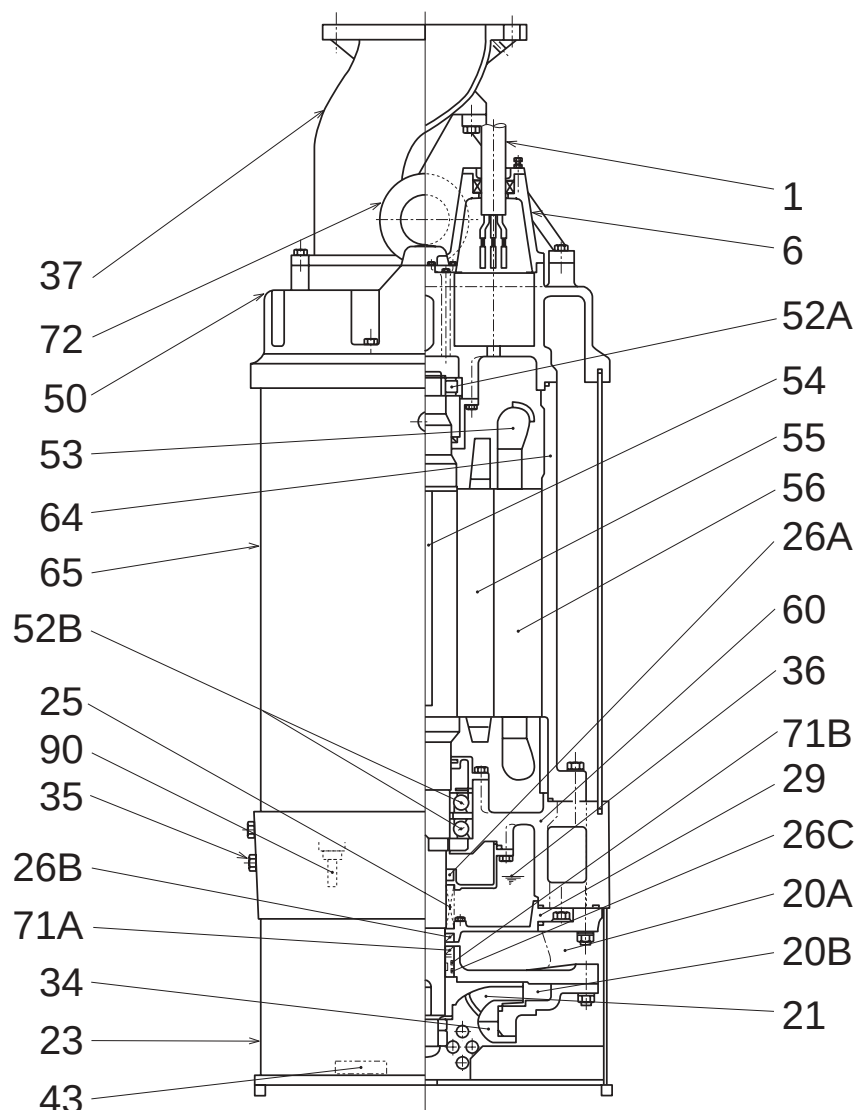
1100 kg (dry weight of the pump without cable)

Dimensional Drawing LH690-50



LH690-50

Sectional Drawing LH690-50



LH690-50

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	20m 7Cx38mm ² /3Cx38mm ²	50	Motor Bracket	1	FC200 (EN-GJL-200)
6	Stuffing Box	1	FC200 (EN-GJL-200)	52A	Upper Bearing	1	NU312C3
20A	Pump Casing upper	1	FC200 (EN-GJL-200)	52B	Lower Bearing	1	7313ADB
20B	Pump Casing lower	1	FC200 (EN-GJL-200)	53	Motor Protector	3	
21	Impeller	1	Chromium Iron Casting HiCrFC	54	Shaft	1	SUS420J2 (EN-X30Cr13)
23	Strainer Stand	1	SS400 (DIN 1.0040)	55	Rotor	1	
25	Mechanical Seal	1	H-50T	56	Stator	1	
26A	Oil Seal	1	SC507212	60	Bearing Housing	1	FC200 (EN-GJL-200)
26B	Oil Seal	1	TC557812	64	Motor Frame	1	FC200 (EN-GJL-200)
26C	Labyrinth Ring	1	SUS403 (EN-X6Cr13)	65	Outer Cover	1	SS400 (DIN 1.0040)
29	Oil casing	1	FC200 (EN-GJL-200)	71A	Upper Shaft Sleeve	1	SUS403 (EN-X6Cr13)
34	Suction Mouth	1	Chromium Iron Casting HiCrFC	71B	Lower Shaft Sleeve	1	SUS403 (EN-X6Cr13)
35	Oil Plug	2	SUS403 (EN-X6Cr13)	72	Eyebolt	1	SS400 (DIN 1.0040)
36	Lubricant		Turbine Oil (ISO VG32)	90	Leakage Sensor Electrode	1	
37	Discharge Pipe	1	FCD700 (EN-GJS-700-2)				
43	Cathodic Protection Plate	3	Aluminium Alloy ALAP				

Pump Performance Curve

LH690-50

Discharge Bore	150 mm
Total Head	120 m
Capacity	2,0 m³/min
Motor Output	90,0 kW
Motor Input	98,9 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	166 A
Starting Current	1100 A
Poles	2
Revolution	S.S. 2920 r.p.m.
Starting Method	star delta
Insulation Class	F

