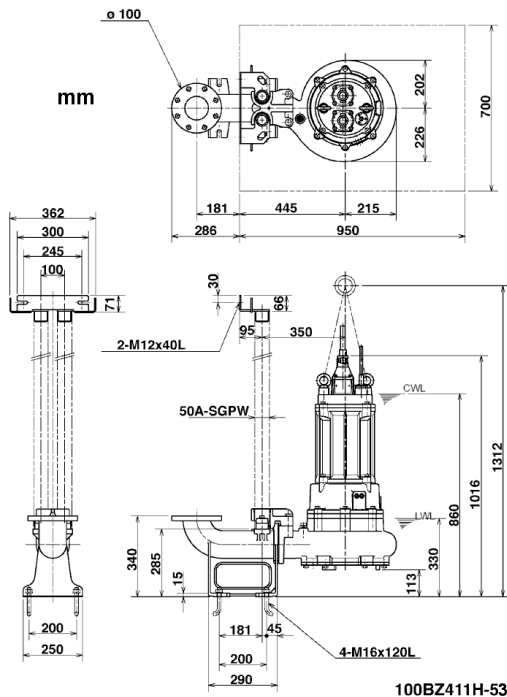
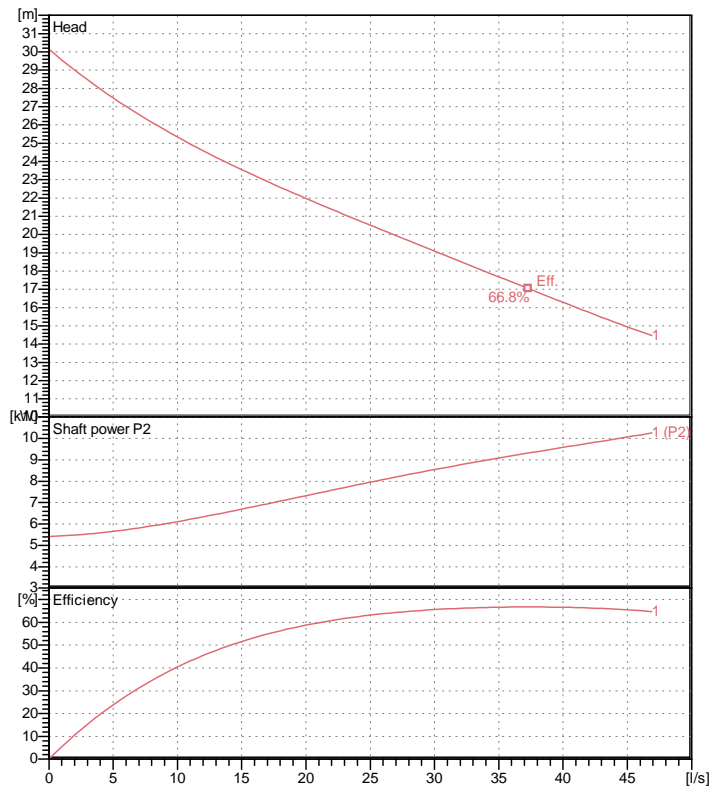


# Data sheet 100BZ411H-53



100BZ411H-53

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



## Specification

Electric submersible pump  
Degree of protection IP 68  
Depth of submersion max. 20 m  
Type of impeller Single channel impeller  
Free passage 80 mm  
Suitable for:  
sewage water

## Electric motor

Dry-type submersible induction motor  
Insulation class F 4 Poles 1445 1/min  
Starting mode Star-delta  
Rated voltage 400 V 50 Hz 3~  
Power uptake 13.60 kW  
Rated power 11.00 kW  
Rated current 23.8 A  
Start current 128.0 A

## Cable

10m H07RN-F 4Cx2,5mm<sup>2</sup>/H07RN-F 3Cx2,5mm<sup>2</sup>/2PNCT 2Cx1,25mm<sup>2</sup> 4" (100mm) JIS 10K screwed-in mating flange  
guide rail fitting optional

## Motor Protection

Miniature protector in windings  
(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	FC200 (EN-GJL-200)
Pump casing	FC200 (EN-GJL-200)
Suction cover	FC200 (EN-GJL-200)
Motor Frame	FC150 (EN-GJL-150)
Shaft	SUS420J2 (EN-X30Cr13)

## Discharge size

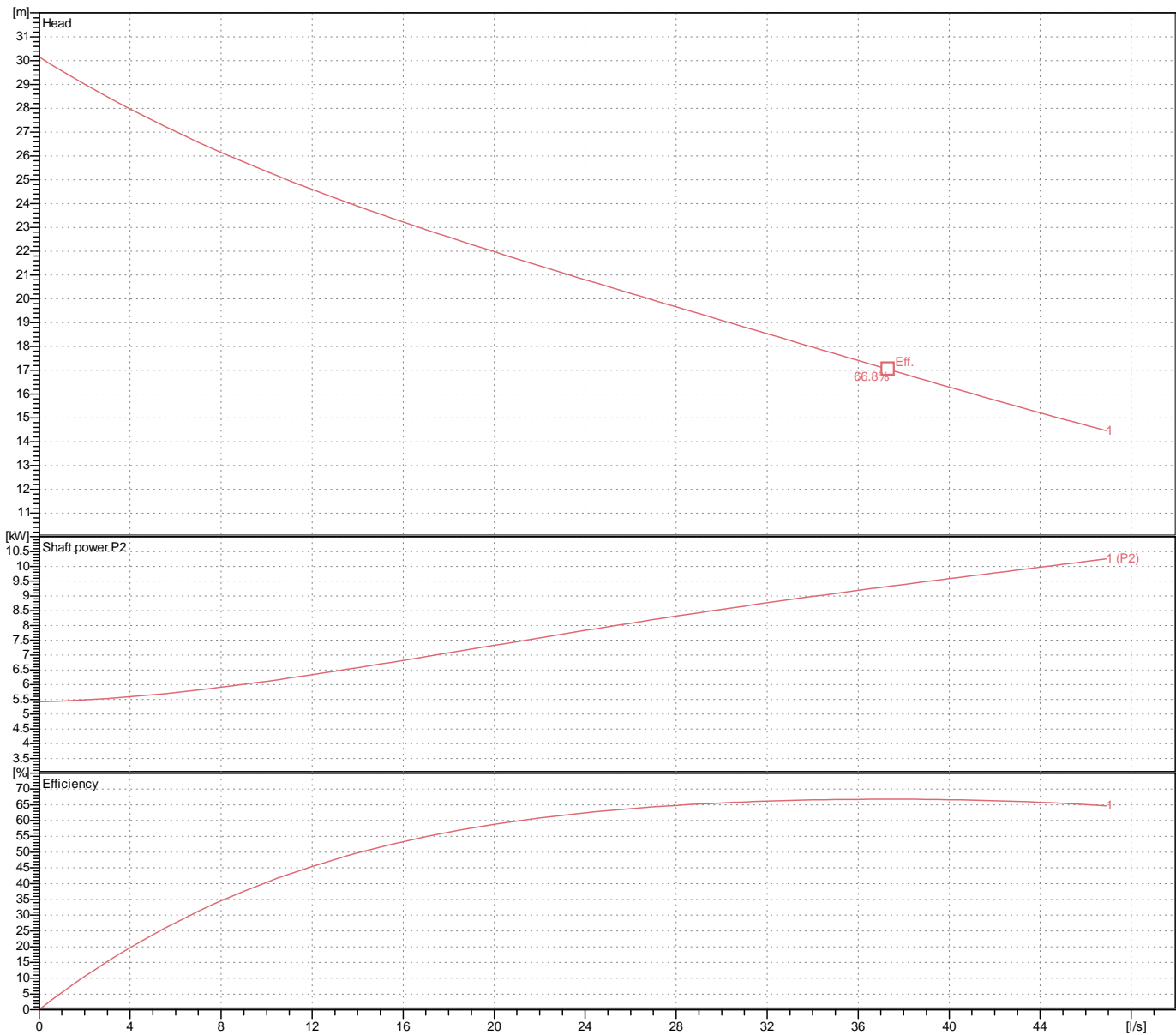
4" (100mm) JIS 10K screwed-in mating flange  
guide rail fitting optional

## Weight

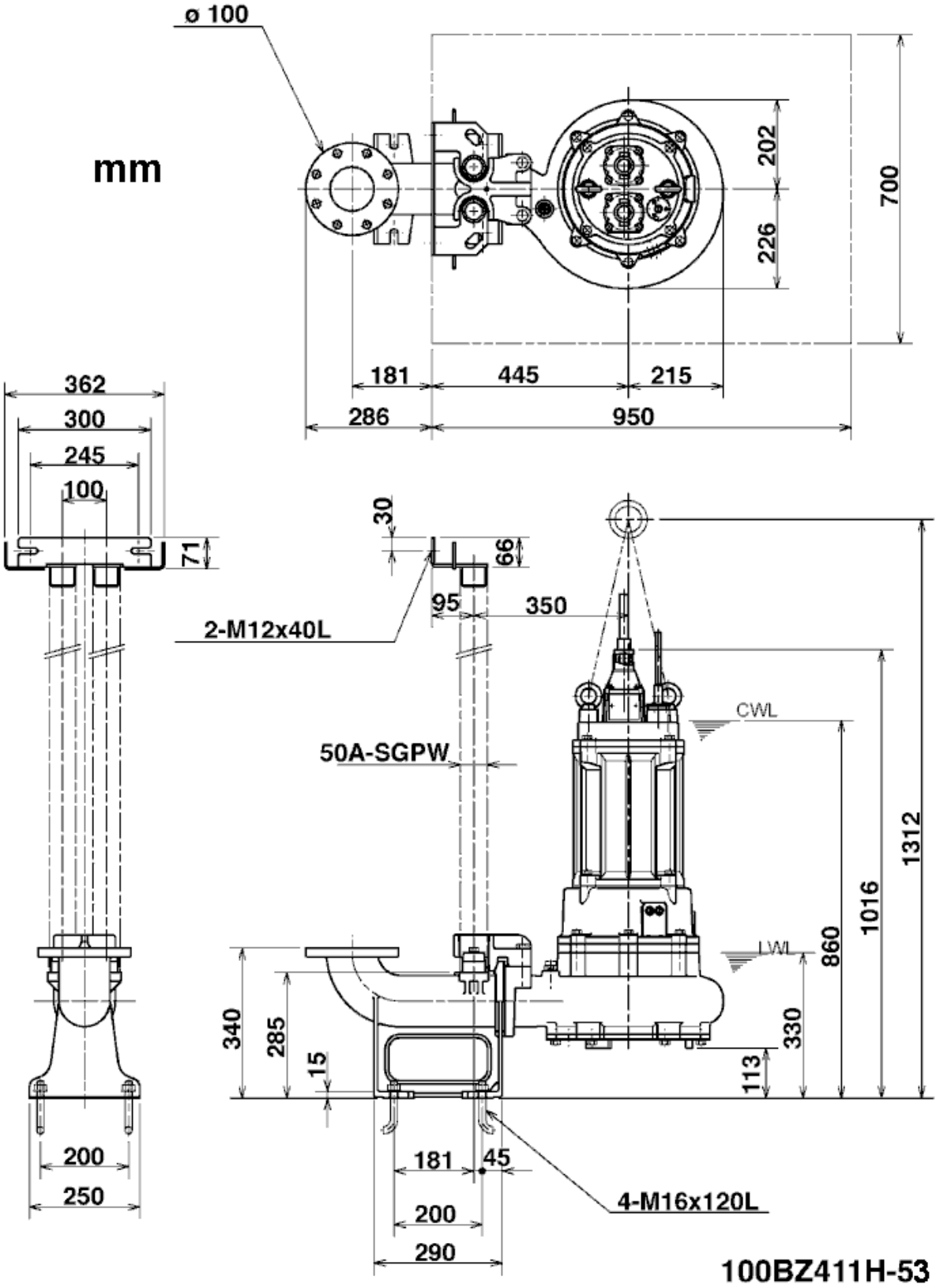
212 kg (dry weight of the pump only without cable)

# Performance curve 100BZ411H-53

Discharge port	4"
Head	30.1 m
Flow	46.9 l/s
Rated power	11.00 kW
Power input	13.60 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	23.8 A
Starting current	128.04 A
Number of poles	4
Speed	1445 1/min
Starting mode	Star-delta
Insulation class	F



# Dimensions TOS100BZ411H-53

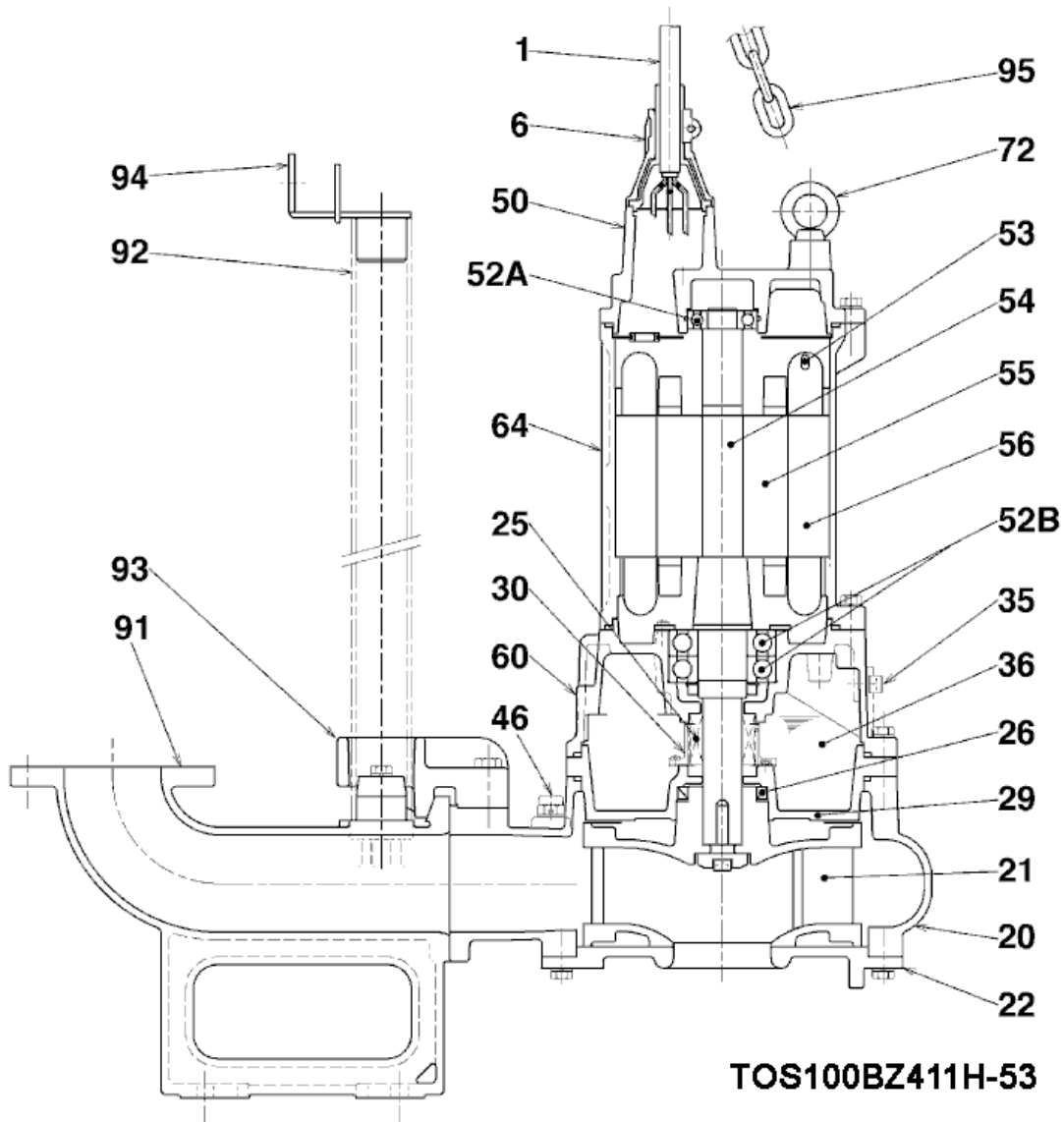


**100BZ411H-53**

CWL: Continuous running water level

LWL: Lowest running water level

# Sectional drawing TOS100BZ411H-53



**TOS100BZ411H-53**

No.	Description	Remark	No.	Description	Remark
1	Cable (3x)	H07RN-F / 2PNCT-F	54	Shaft	SUS420J2 (EN-X30Cr13)
6	Cable entry (2x)	FC200 (EN-GJL-200)	55	Rotor	.
20	Pump casing	FC200 (EN-GJL-200)	56	Stator	.
21	Impeller	FC200 (EN-GJL-200)	60	Bearing Housing	FC150 (EN-GJL-150)
22	Suction cover	FC200 (EN-GJL-200)	64	Motor Frame	FC150 (EN-GJL-150)
25	Mechanical seal	H-40	72	Eye screw (2x)	Construction steel SS400
26	Oil seal	TC709212	91	duck foot bend	FC200 (EN-GJL-200)
29	Oil casing	FC200 (EN-GJL-200)	92	Guide pipe (option) (2x)	Galvanized steel pipe SGPW
30	Oil distributor	Plastic	93	guide support	FCD45 (EN-GJS-450-10)
35	Oil screw (2x)	SUS304 (EN-X5CrNi18-10)	94	Guide pipe holder	SUS304 (EN-X5CrNi18-10)
36	Lubricant	Turbine oil (ISO VG32)	95	Lifting chain	Construction steel SS400
46	Air vent valve	Nylon			
50	Motor cover	FC200 (EN-GJL-200)			
52A	Upper bearing	6306ZZC3			
52B	Lager unten (2x)	6310ZZC2D3			
53	Miniature protector (3x)	.			