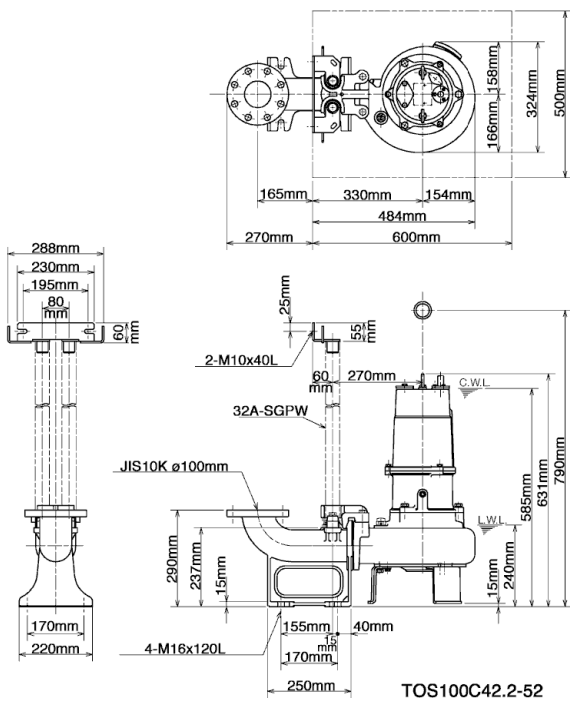
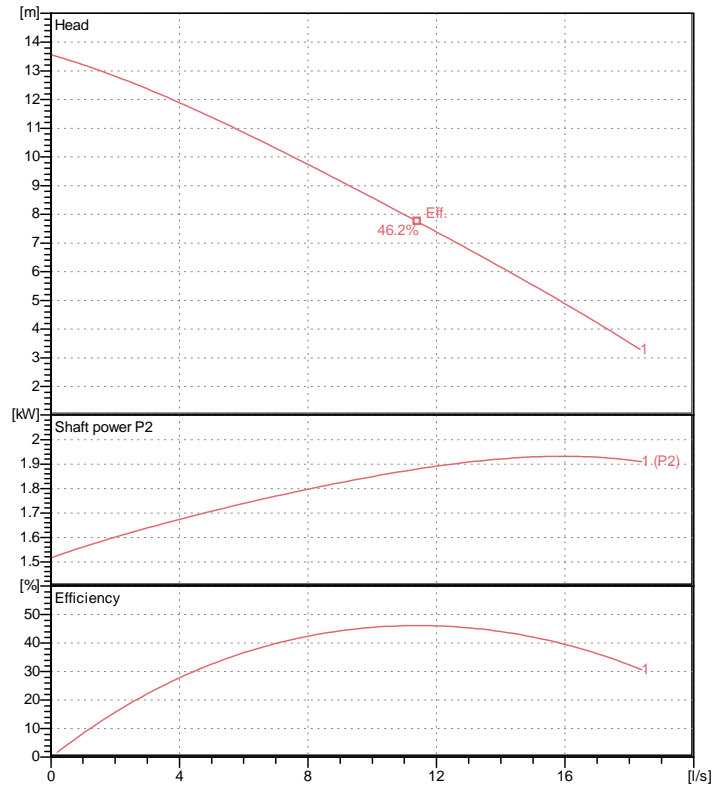


Data sheet 100C42.2-52



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



Specification

Electric submersible pump with cutter mechanism
Degree of protection IP 68
Depth of submersion max. 15 m
Type of impeller Single channel impeller
Free passage 44 mm
Suitable for:
sewage water and liquids carrying solids

Electric motor

Dry-type submersible induction motor
Insulation class E 4Poles 1420 1/min
Starting mode Directly
Rated voltage 400 V 50 Hz 3~
Power uptake 2.85 kW
Rated power 2.20 kW
Rated current 5 A
Start current 32.0 A

Cable

10m H07RN-F 4Cx1,5mm²

Motor Protection

Circle thermal protector
(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

FC20 (EN-GJL-200) + Tungsten carbide

Pump casing

FC200 (EN-GJL-200)

Suction cover

FCD700 (EN-GJS-700-2)

Motor Frame

FC200 (EN-GJL-200)

Shaft

SUS420J2 (EN-X30Cr13)

Discharge size

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

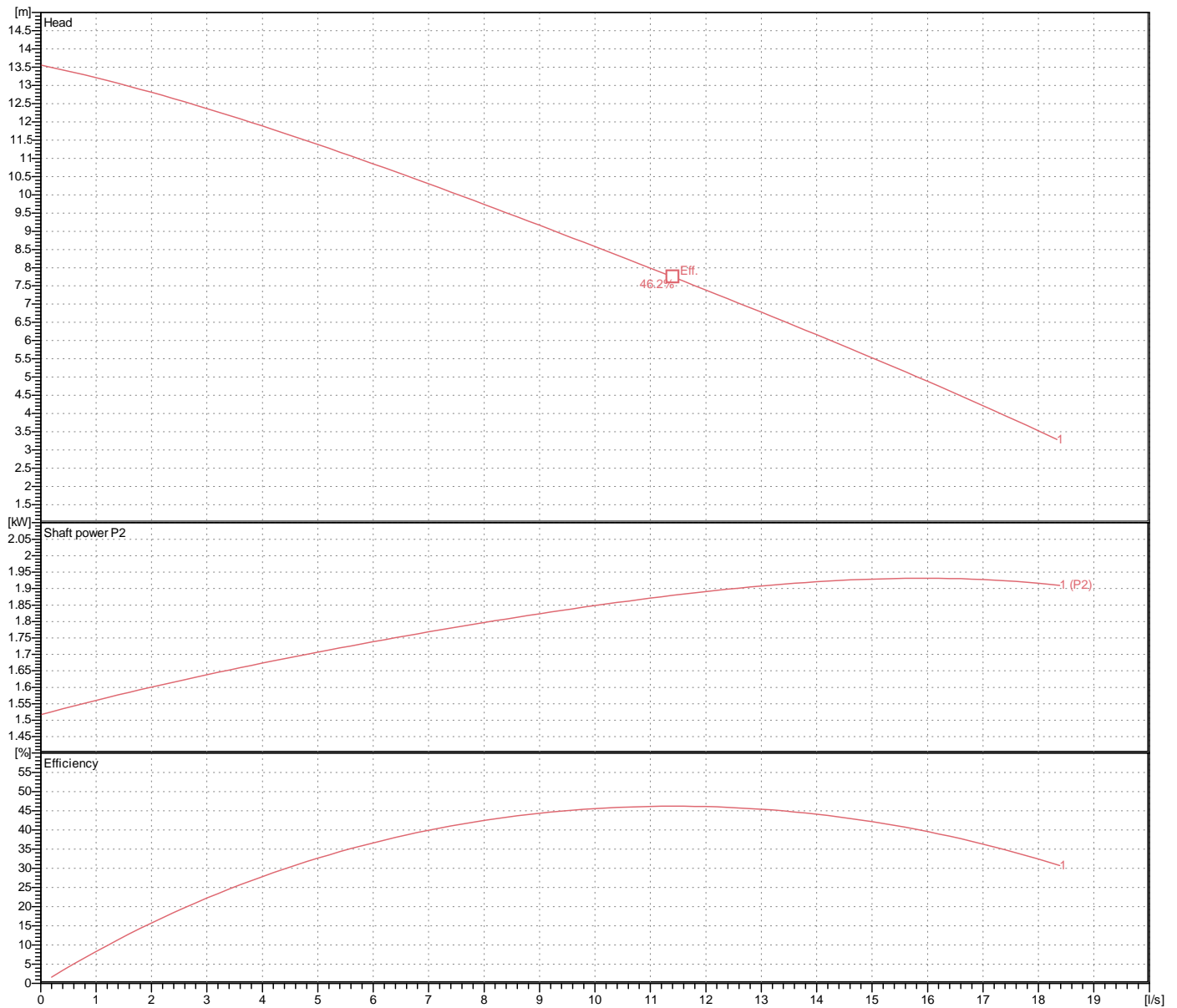
Weight

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

Performance curve

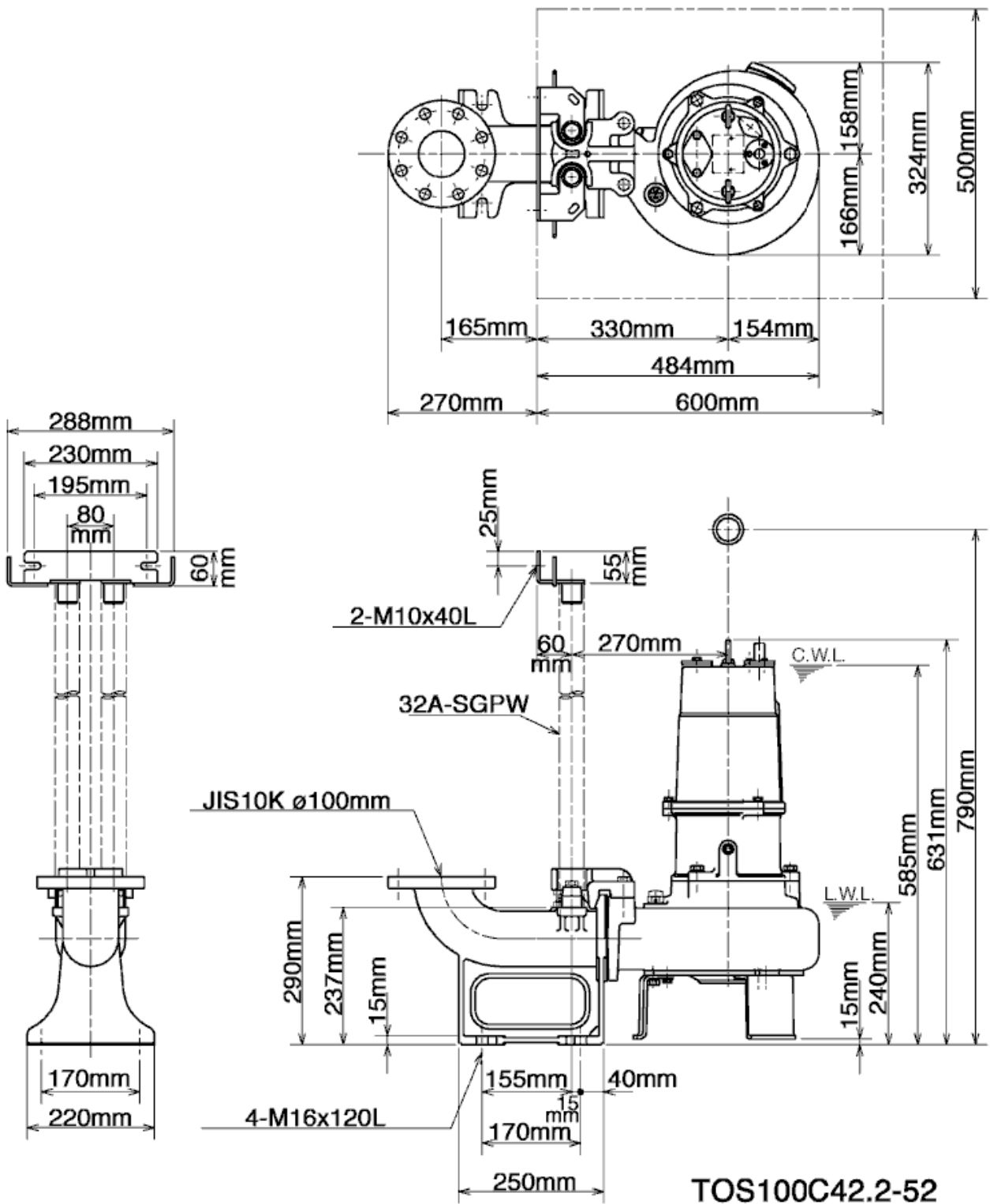
100C42.2-52

Discharge port	4"
Head	13.6 m
Flow	18.3 l/s
Rated power	2.20 kW
Power input	2.85 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	5 A
Starting current	32.00 A
Number of poles	4
Speed	1420 1/min
Starting mode	Directly
Insulation class	E



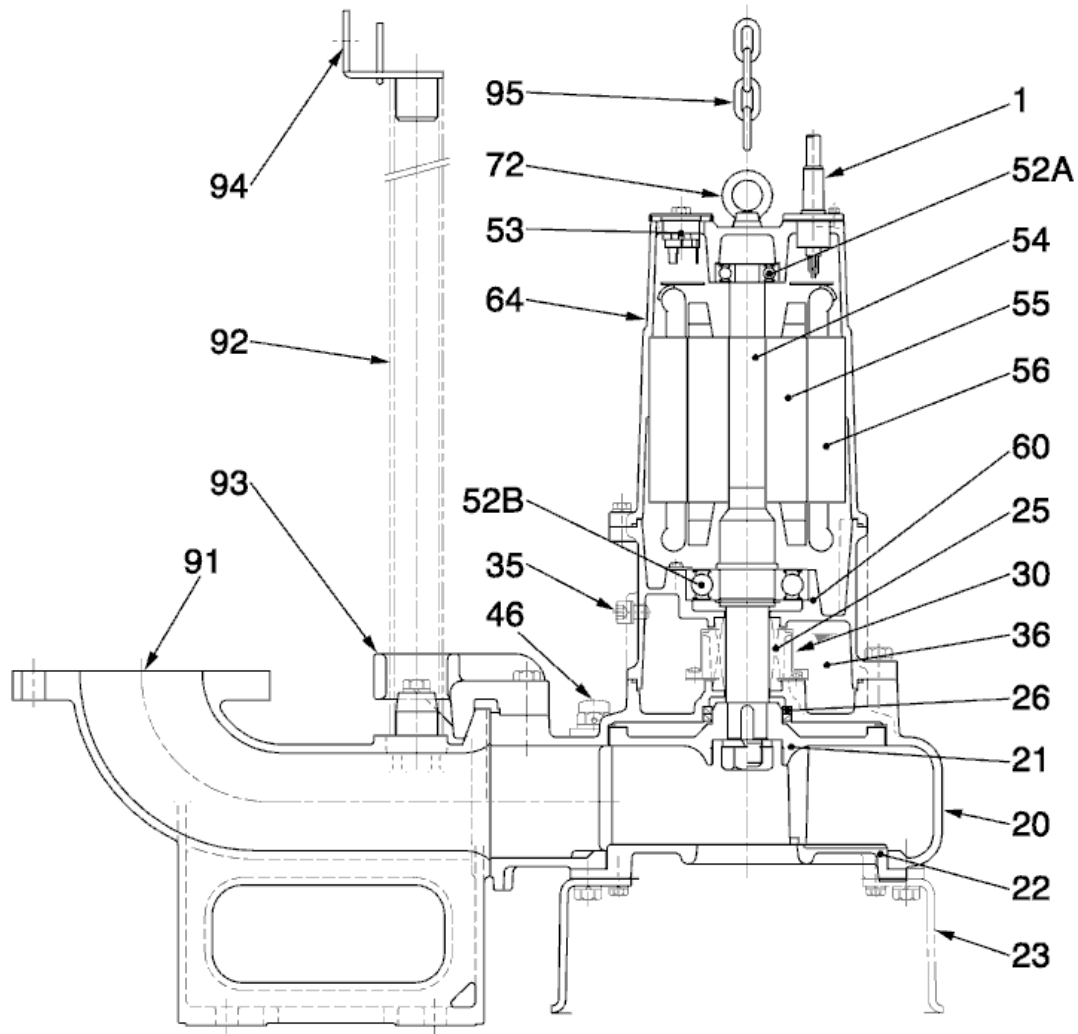
Dimensions

TOS100C42.2-52



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

Sectional drawing TOS100C42.2-52



TOS100C42.2-52

No.	Description	Remark	No.	Description	Remark
1	Cable	H07RN-F	56	Stator	.
20	Pump casing	FC200 (EN-GJL-200)	60	Bearing Housing	FC200 (EN-GJL-200)
21	Impeller	FC20 (EN-GJL-200) + Tungsten carbide	64	Motor Frame	FC200 (EN-GJL-200)
22	Suction cover	FCD700 (EN-GJS-700-2)	72	Eye screw (2x)	SUS304 (EN-X5CrNi18-10)
23	Stand support (3x)	Construction steel SS400	91	duck foot bend	FC200 (EN-GJL-200)
25	Mechanical seal	H-30A	92	Guide pipe (option) (2x)	electroplated steel pipe
26	Oil seal	TC456812	93	guide support	FCD45 (EN-GJS-450-10)
30	Oil distributor	Plastic	94	Guide pipe holder	SUS304 (EN-X5CrNi18-10)
35	Oil screw	SUS304 (EN-X5CrNi18-10)	95	Chain	Construction steel SS400
36	Lubricant	Turbine oil (ISO VG32)			
46	Air vent screw	Nylon			
52A	Upper bearing	6304ZZC3			
52B	Lower bearing	6307ZZC3			
53	Motor Protector 380/400/415V	50Hz KA314-HRXL00 (H.C)			
54	Shaft	SUS420J2 (EN-X30Cr13)			
55	Rotor	.			