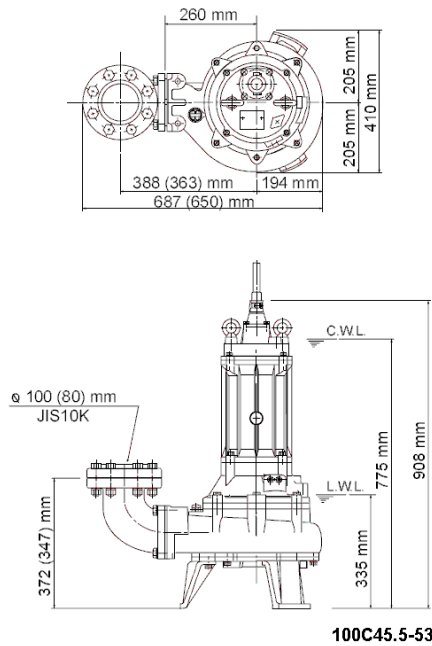
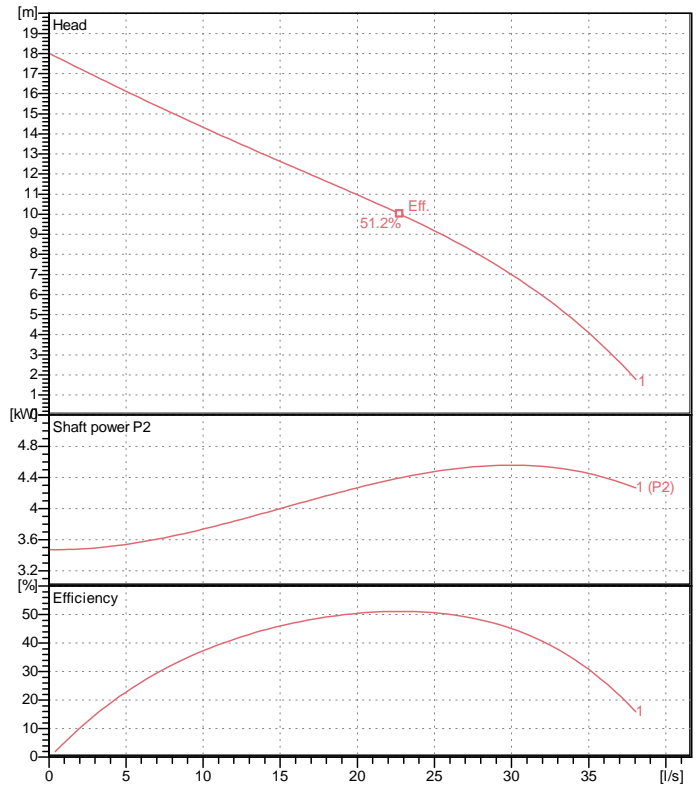


Data sheet 100C45.5-53



100C45.5-53

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 40 mm
Suitable for:
sewage water and liquids carrying solids

Electric motor

Dry-type submersible induction motor
Insulation class F 4Poles 1443 1/min
Starting mode Directly
Rated voltage 400 V 50 Hz 3~
Power uptake 6.92 kW
Rated power 5.50 kW
Rated current 12.1 A
Start current 63.0 A

Cable

10m H07RN-F 4Cx2,5mm²

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
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 SUS403 (EN-X6Cr13)

Discharge size

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

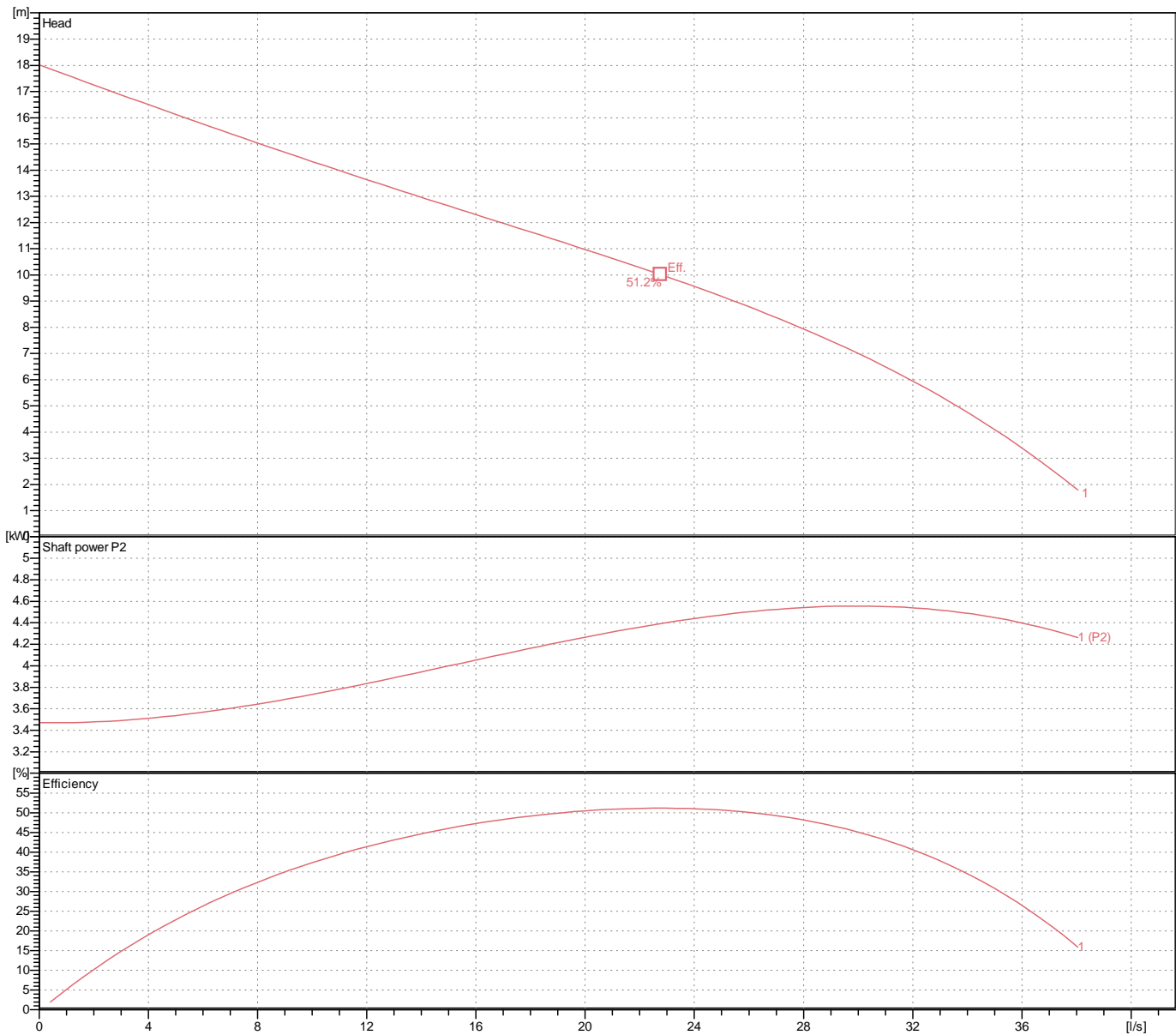
Weight

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

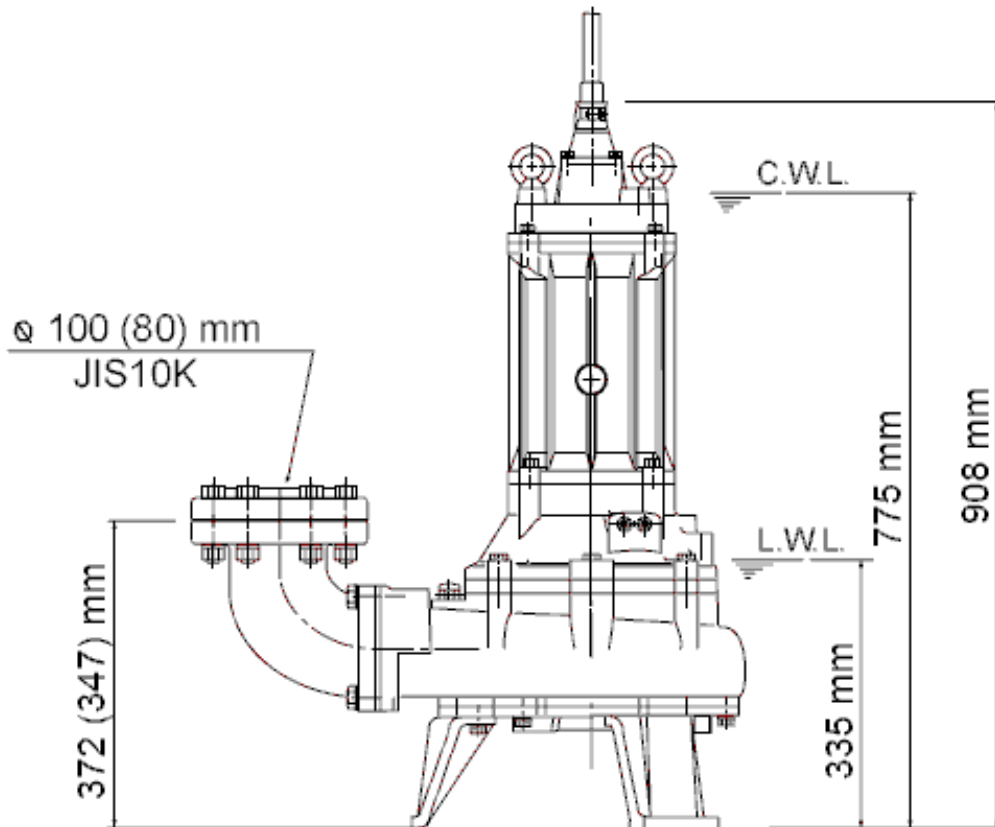
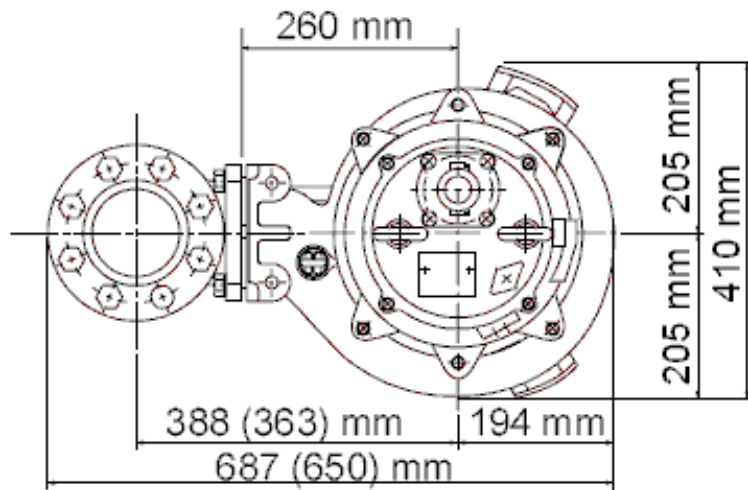
Performance curve

100C45.5-53

Discharge port	4"
Head	18.0 m
Flow	38.0 l/s
Rated power	5.50 kW
Power input	6.92 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	12.1 A
Starting current	63.04 A
Number of poles	4
Speed	1443 1/min
Starting mode	Directly
Insulation class	F



Dimensions 100C45.5-53



100C45.5-53

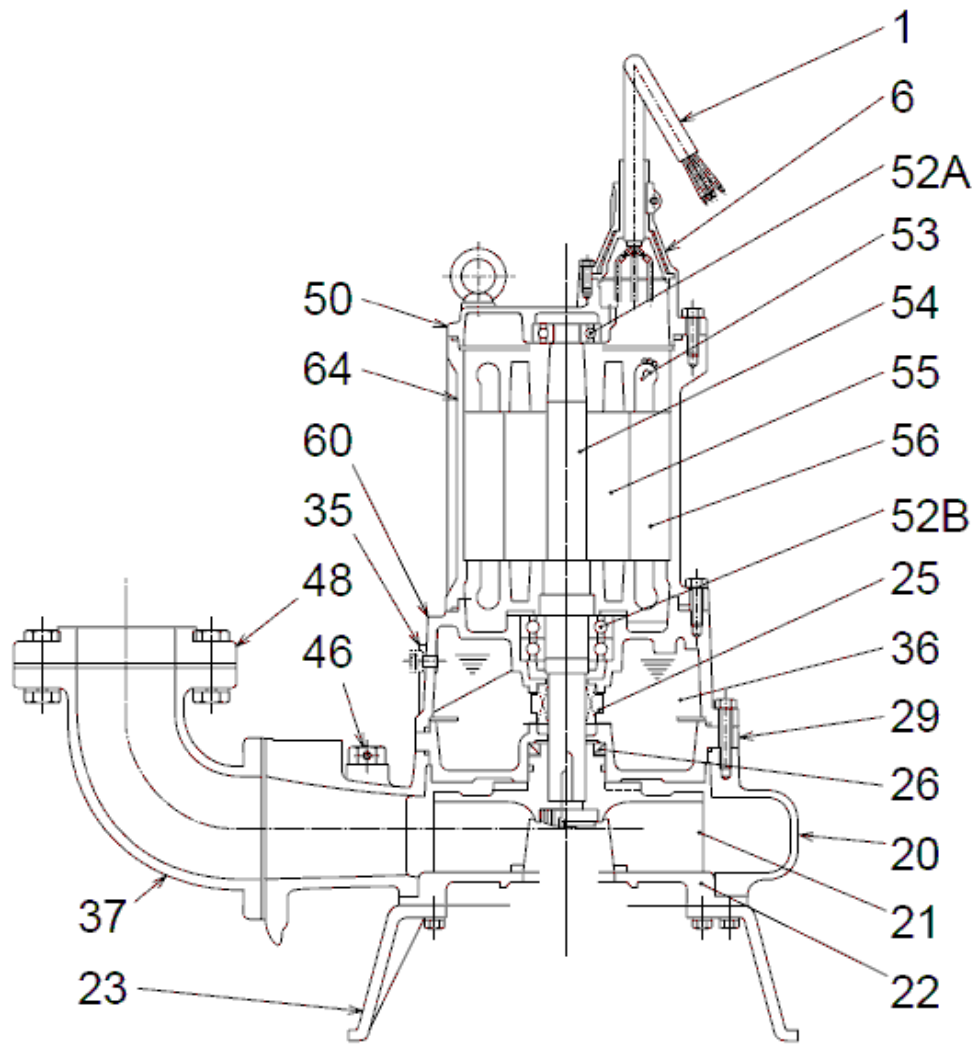
CWL: Continuous running water level
LWL: Lowest running water level



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17.10.2018 V.18 / 1.10.2015

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Sectional drawing 100C45.5-53



100C45.5-52

No.	Description	Remark	No.	Description	Remark
1	Cable (3x)	H07RN-F / 2PNCT-F	52B	Lower bearing	6310ZZD2C3
6	Stuffing box	FC200 (EN-GJL-200)	53	Motor Protector 380/400/415V	50Hz KA314-HRXL00 (H.C)
20	Pump casing	FC200 (EN-GJL-200)	54	Shaft	SUS403 (EN-X6Cr13)
21	Impeller	FC20 (EN-GJL-200) + Tungsten carbide	55	Rotor	.
22	Suction cover	FCD700 (EN-GJS-700-2)	56	Stator	.
23	Stand support (3x)	FC200 (EN-GJL-200)	60	Bearing Housing	FC200 (EN-GJL-200)
25	Mechanical seal	H-40	64	Motor Frame	FC200 (EN-GJL-200)
26	Oil seal	TC709212	72	Eye screw (2x)	Construction steel SS400
29	Oil casing	FC200 (EN-GJL-200)			
35	Oil screw (2x)	SUS304 (EN-X5CrNi18-10)			
36	Lubricant	Turbine oil (ISO VG32)			
37	Discharge bend	FC200 (EN-GJL-200)			
46	Air vent screw	Nylon			
48	Screwed Flange	FC200 (EN-GJL-200)			
50	Motor cover	FC200 (EN-GJL-200)			
52A	Upper bearing	6306ZZC3			