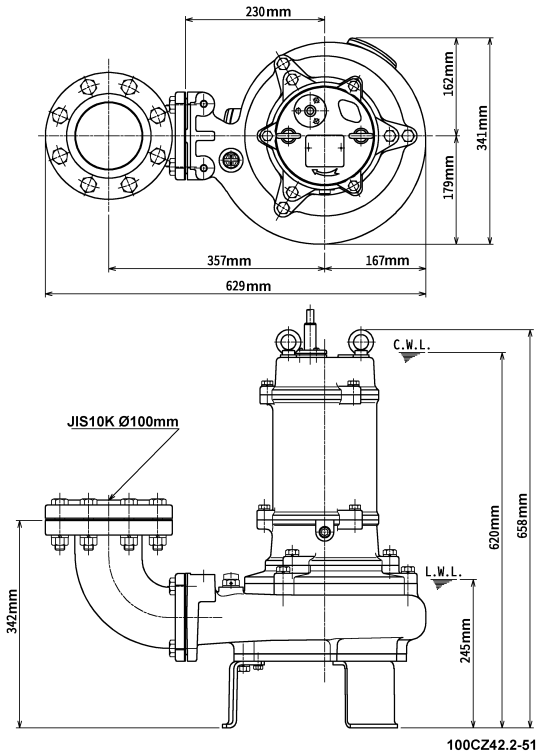
Data sheet 100CZ42.2-51



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

Specification

Elektrische Tauchpumpe CZ-Serie

Degree of protection	IP 68
Pressure resistance	max. 15 m
Type of impeller	single channel impeller
Free passage	30 mm

Suitable for:
sewage water and liquids carrying solids

Electric motor

Dry-type submersible induction motor

Insulation class	F	4Poles	1427 1/min	
Starting mode	Direct starting			
Rated voltage	400 V	50 Hz	3~	
Power uptake	264.01 kW			
Rated power	2.20 kW			
Rated current	4.8 A			
Start current	32.0 A			

Cable

10m NSSHÖU 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
FCD500 (EN-GJS-500-7)

Pump casing	Grey iron casting 250 (EN-GJL-250)
Suction cover	FCD500 (EN-GJS-500-7)
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

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

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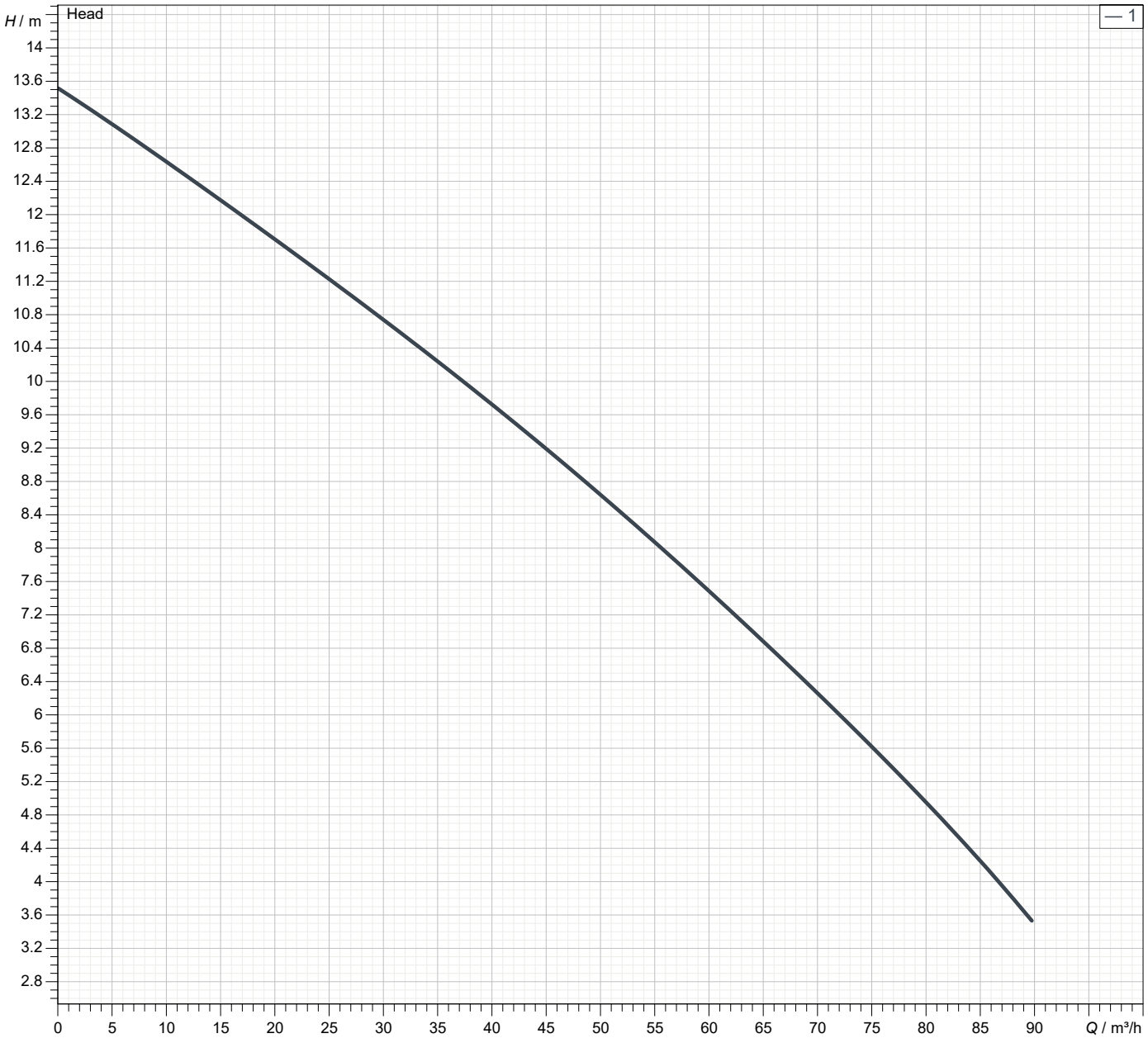
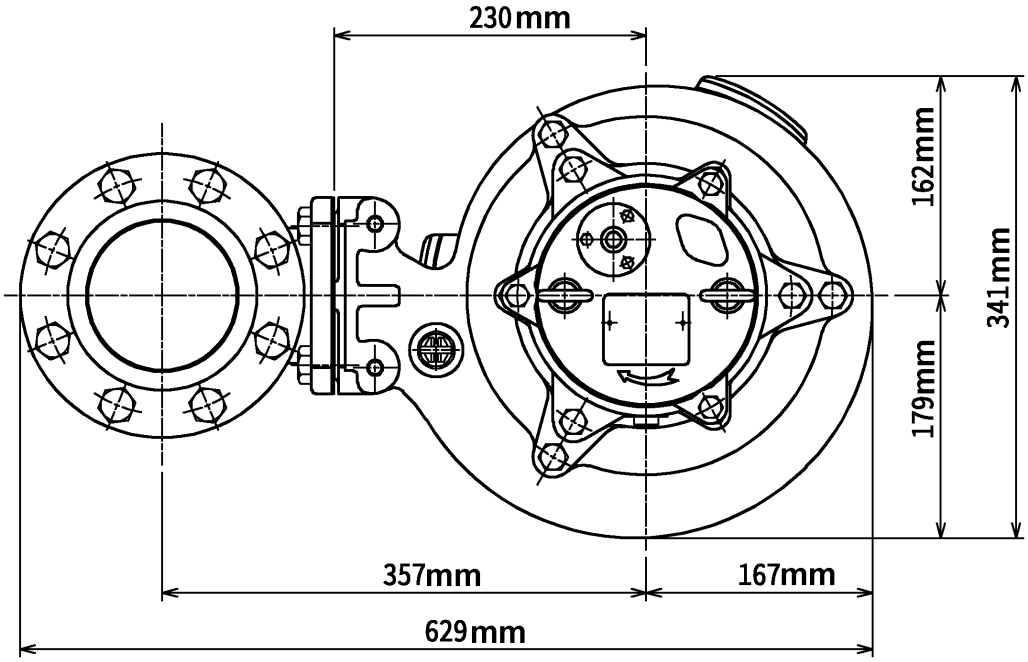
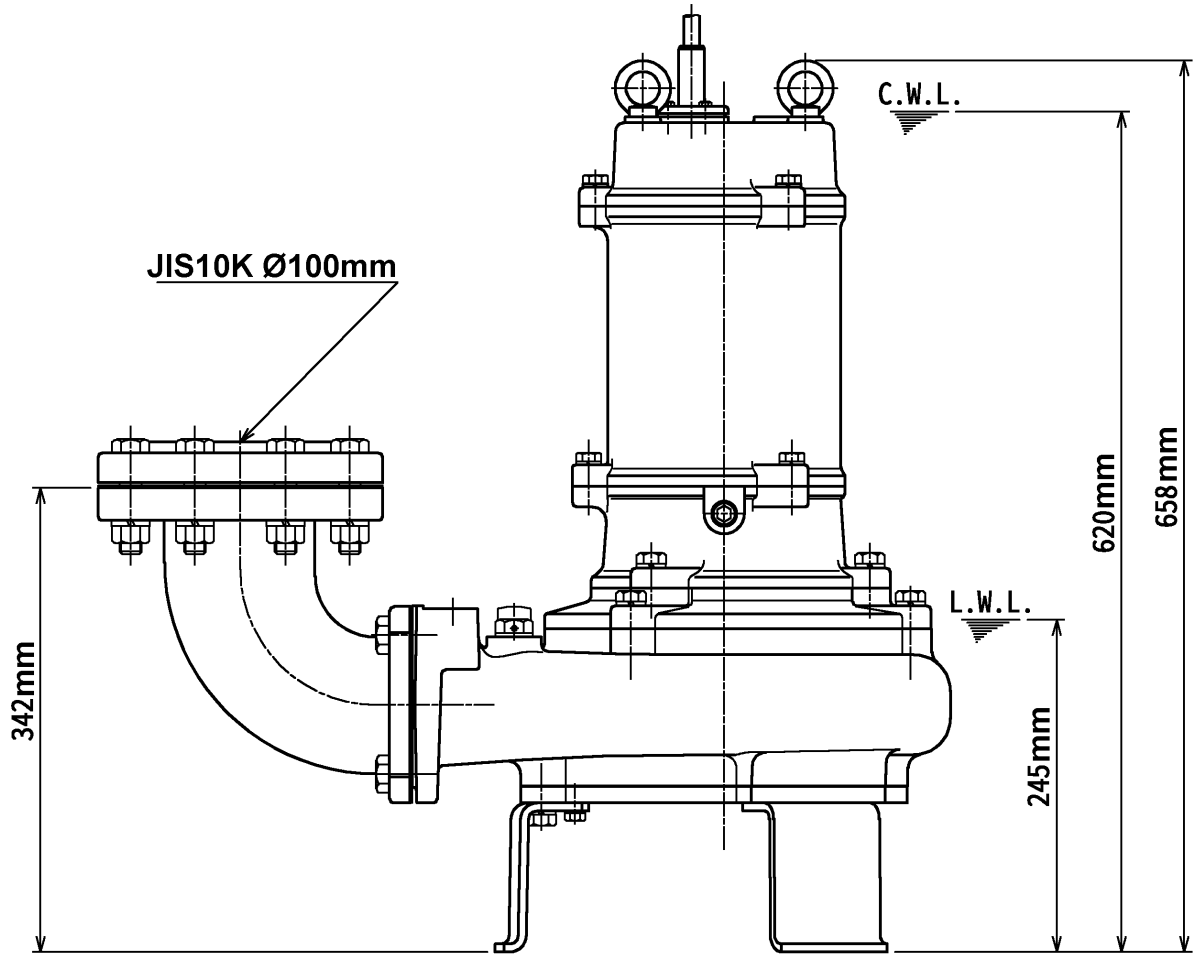
Performance curve
100CZ42.2-51

Discharge port	4"
Head	13.5 m
Flow	89.7 m³/h
Rated power	2.20 kW
Power input	264.01 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	4.8 A
Starting current	32.00 A
Number of poles	4
Speed	1427 1/min
Starting mode	Direct starting
Insulation class	F



Dimensions
100CZ42.2-51





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Sectional drawing
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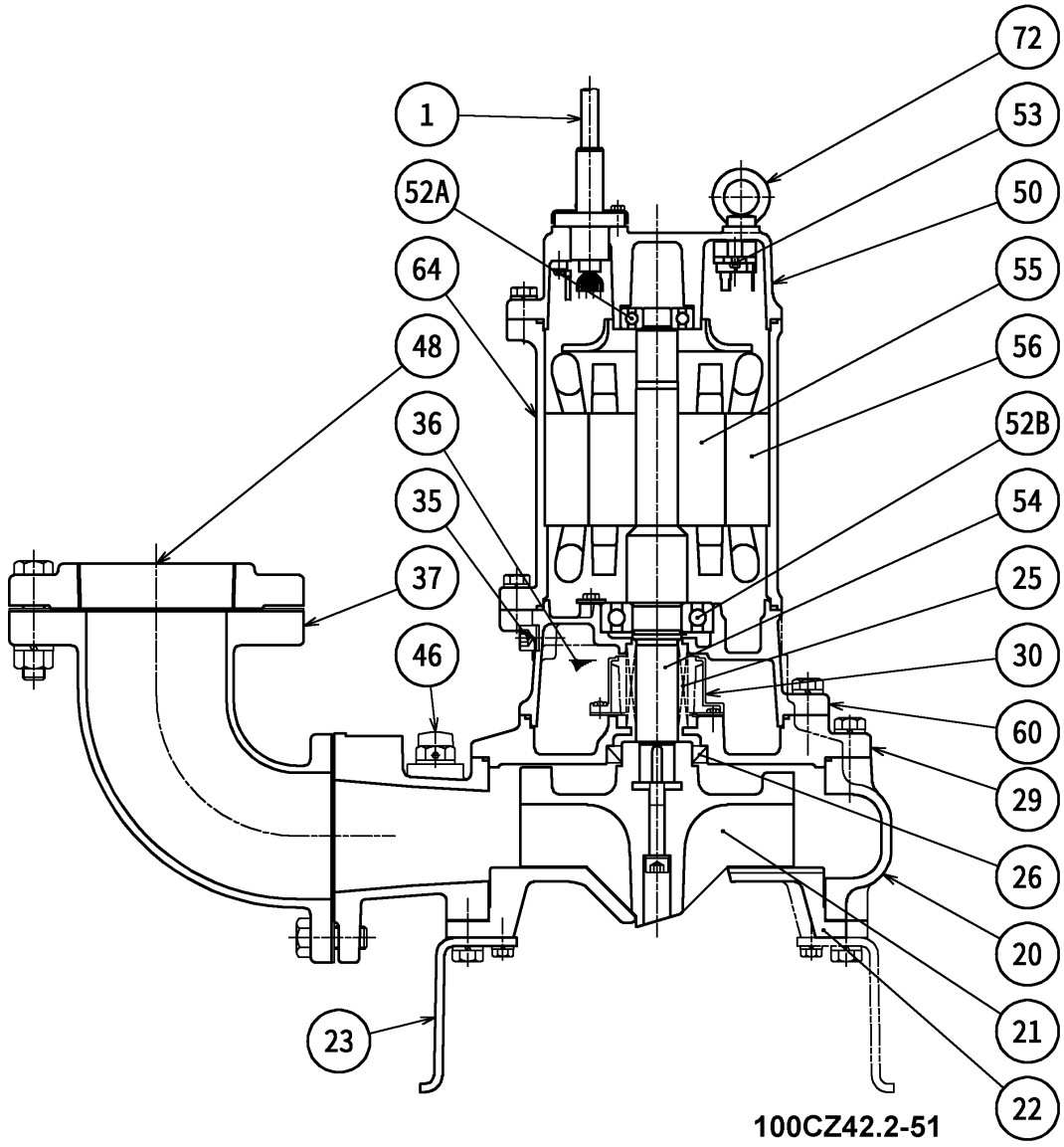

No.	Description	Remark	No.	Description	Remark
1	Cable	NSSHÖU	52B	Lower Bearing	6307ZZC3
20	Pump casing	Grey iron casting 250 (EN-GJL-250)	53	Motor Protector 380/400/415V-50Hz.KA314-HRXL00 (H.C)	
21	Impeller	FCD500 (EN-GJS-500-7)	54	Shaft	SUS420J2 (EN-X30Cr13)
22	Suction cover	FCD500 (EN-GJS-500-7)	55	Rotor	.
23	Stand support (3x)	Construction steel SS400	56	Stator	.
25	Mechanical seal	H-30A	60	Bearing Housing	FC200 (EN-GJL-200)
26	Oil seal	TC507212	64	Motor Frame	FC200 (EN-GJL-200)
29	Oil Casing	Grey iron casting 250 (EN-GJL-250)	72	Eye screw	SUS304 (EN-X5CrNi18-10)
30	Oil distributor	Plastic			
35	Oil screw	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 Bracket	FC200 (EN-GJL-200)			
52A	Upper bearing	6304ZZC3			

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