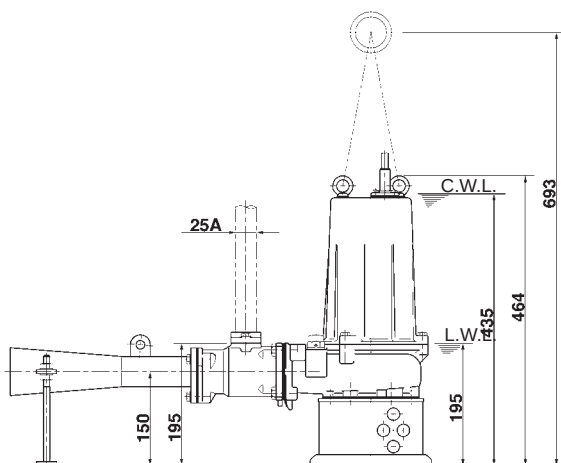
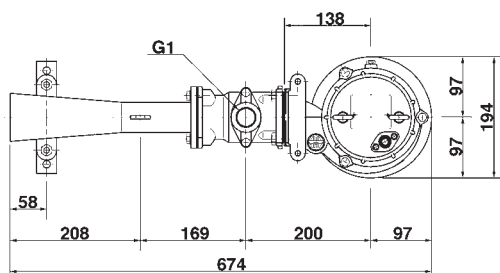
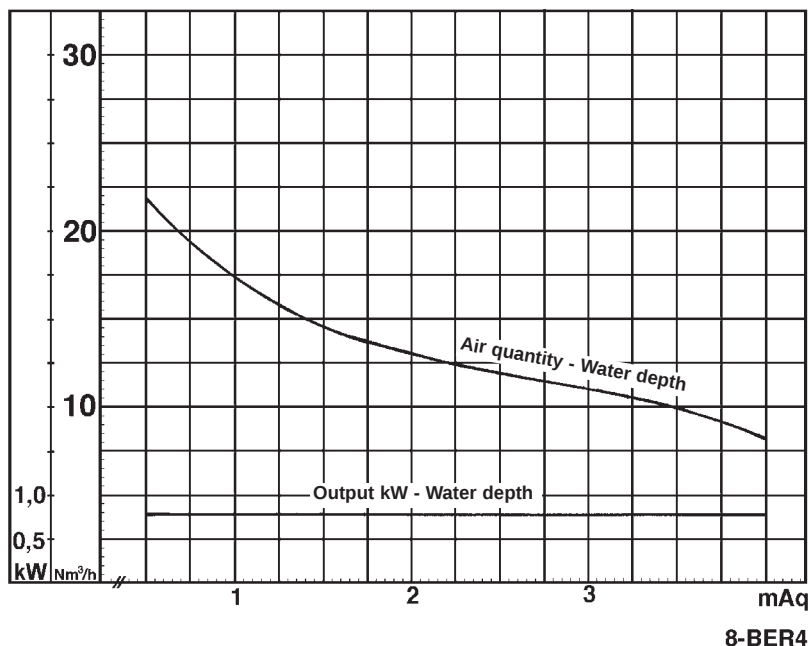


Data Sheet 8-BER4



C.W.L. = Continuous running water level
L.W.L. = Lowest running water level

8-BER4



Classification

Electric submersible aerator
Protection class IP68
Depth of submersion max. 30m
1-channel impeller, non-clogging type
Solid handling max. 20mm
Purpose: aeration of activated sludge (municipal sewage only)

Electric Motor

Dry-type submersible induction motor,
Insulation class E, 2 poles, 2810 r.p.m.
Direct on line start
Voltage: 400V, 50Hz, 3-phase
Power input: 1,13kW
Power output: 0,75kW
Nominal current: 1,9A
Start current: 8,5A

Electric Cable

10m H07RN-F 4Cx1,5mm²

Motor Protection

Circle thermal protector
(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:	FC200 (EN-GJL-200)
Casing:	FC200 (EN-GJL-200)
Suction Cover:	FC200 (EN-GJL-200)
Motor frame:	FC150 (EN-GJL-1500)
Shaft:	SUS403 (EN-X6Cr13)
Ejector:	SS400 (DIN 1.0040) nylon coated
TOS-Ejector:	SS400 (DIN 1.0040) nylon coated

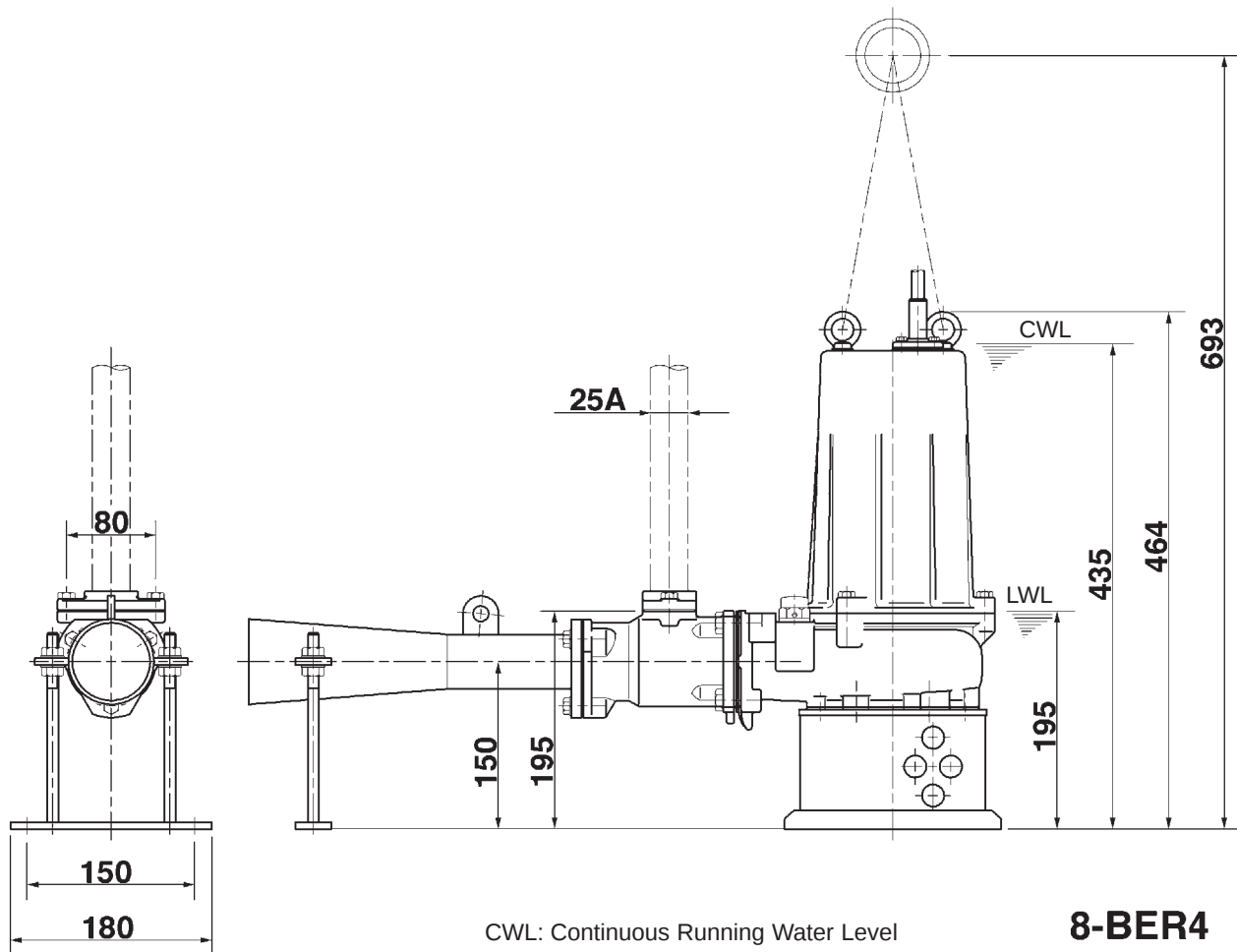
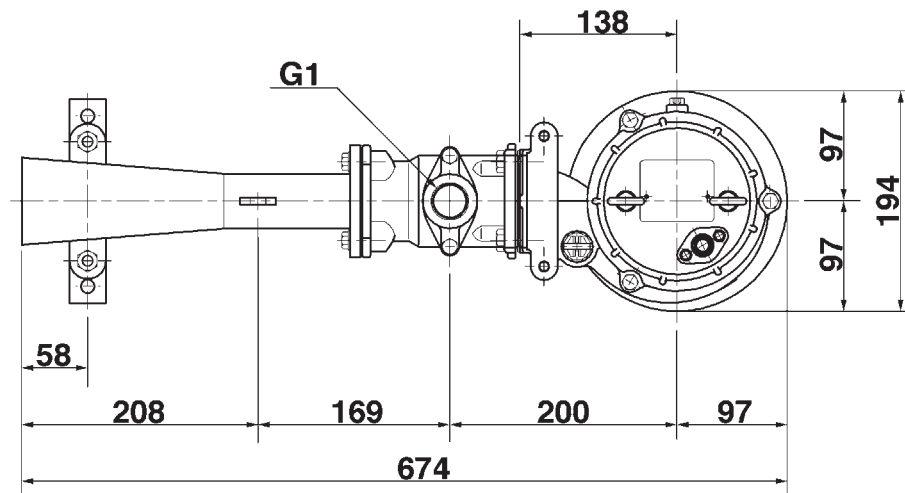
Weight

28 kg (dry weight of the pump without cable)

Air inlet

25 mm screwed-in flange
Guide rail fitting optional

Dimensional Drawing 8-BER4

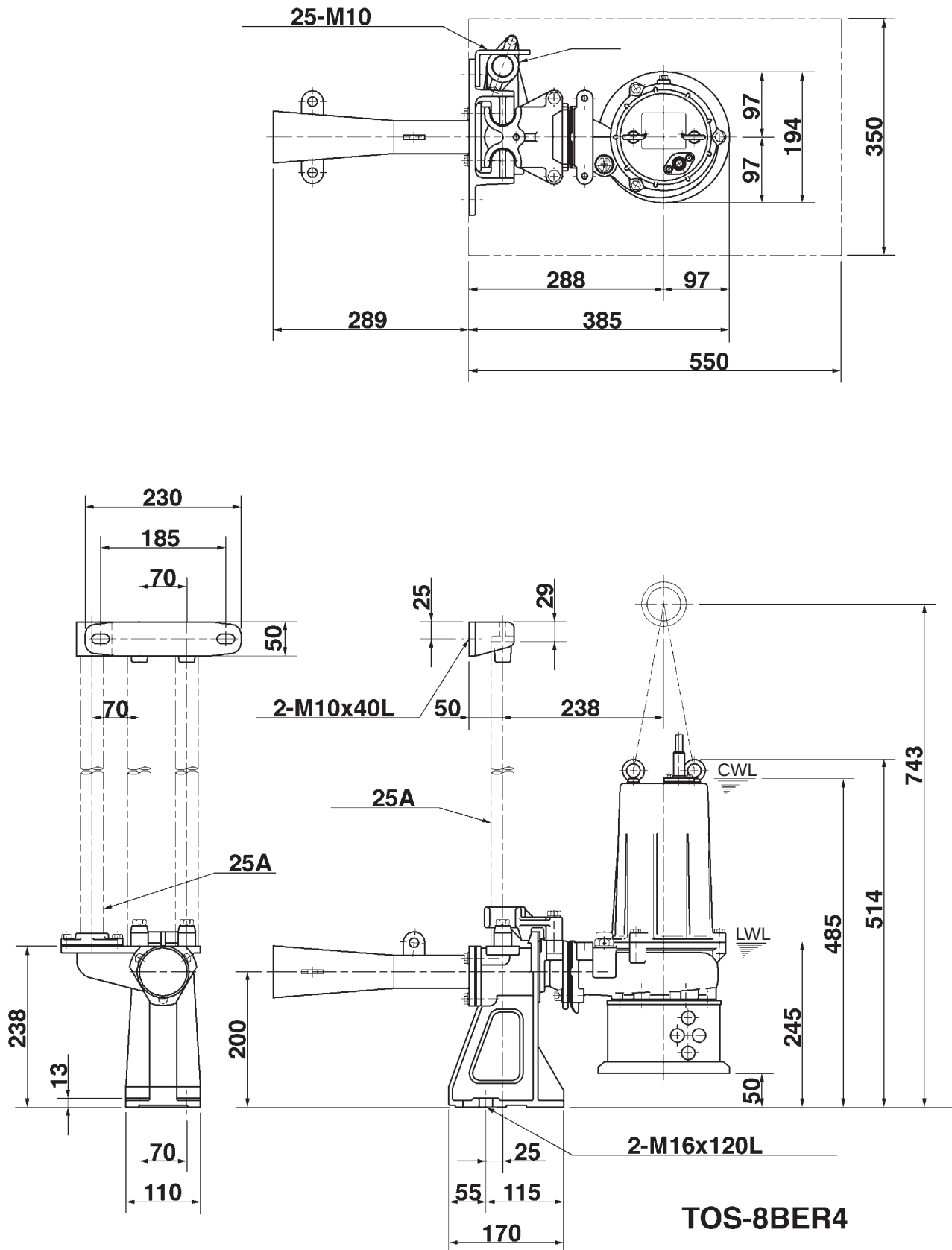


CWL: Continuous Running Water Level
LWL: Lowest Running Water Level

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Dimensional Drawing TOS-8BER4

Dimensions in mm

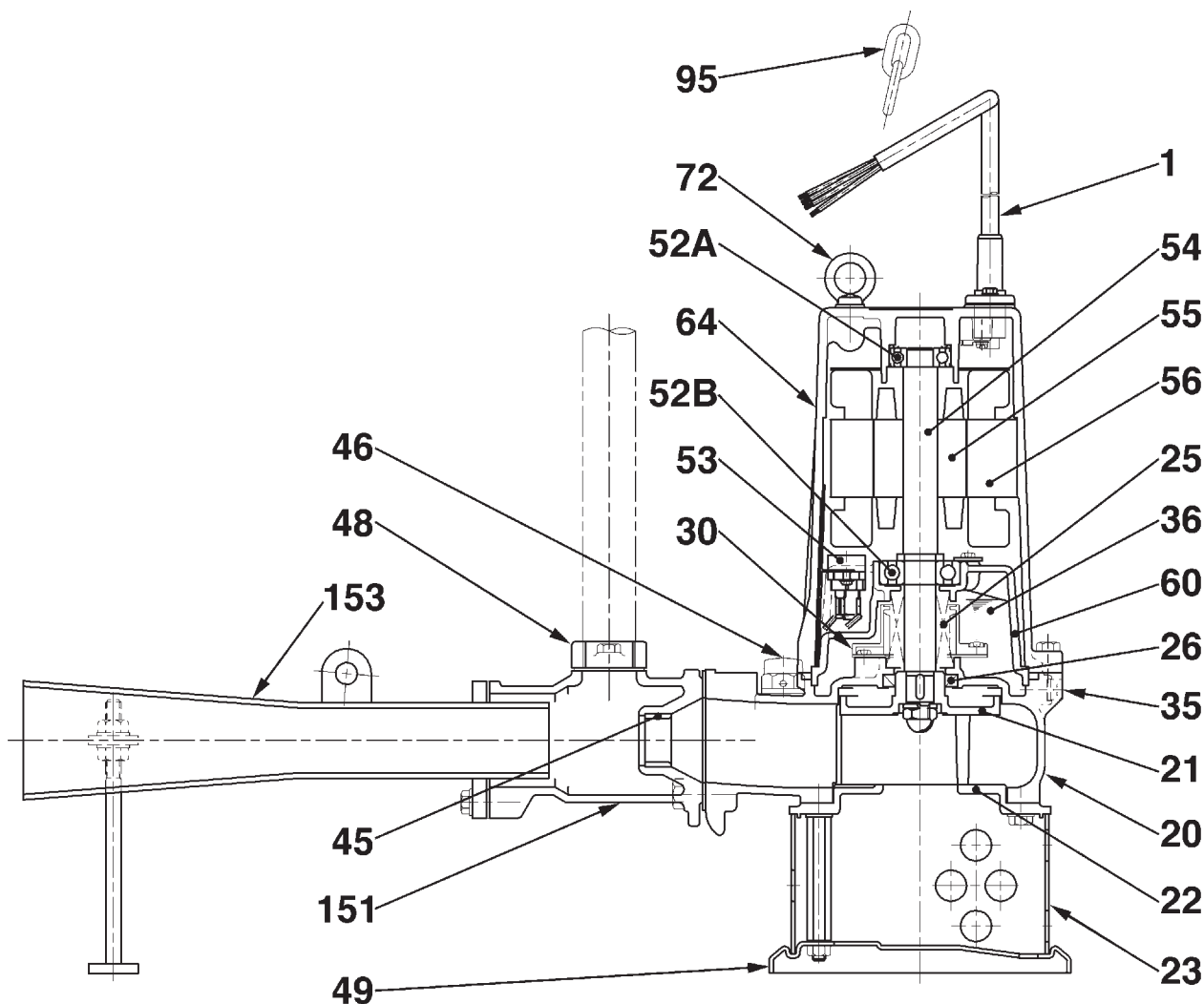


CWL: Continuous Running Water Level

LWL: Lowest Running Water Level

Sectional Drawing

8-BER4

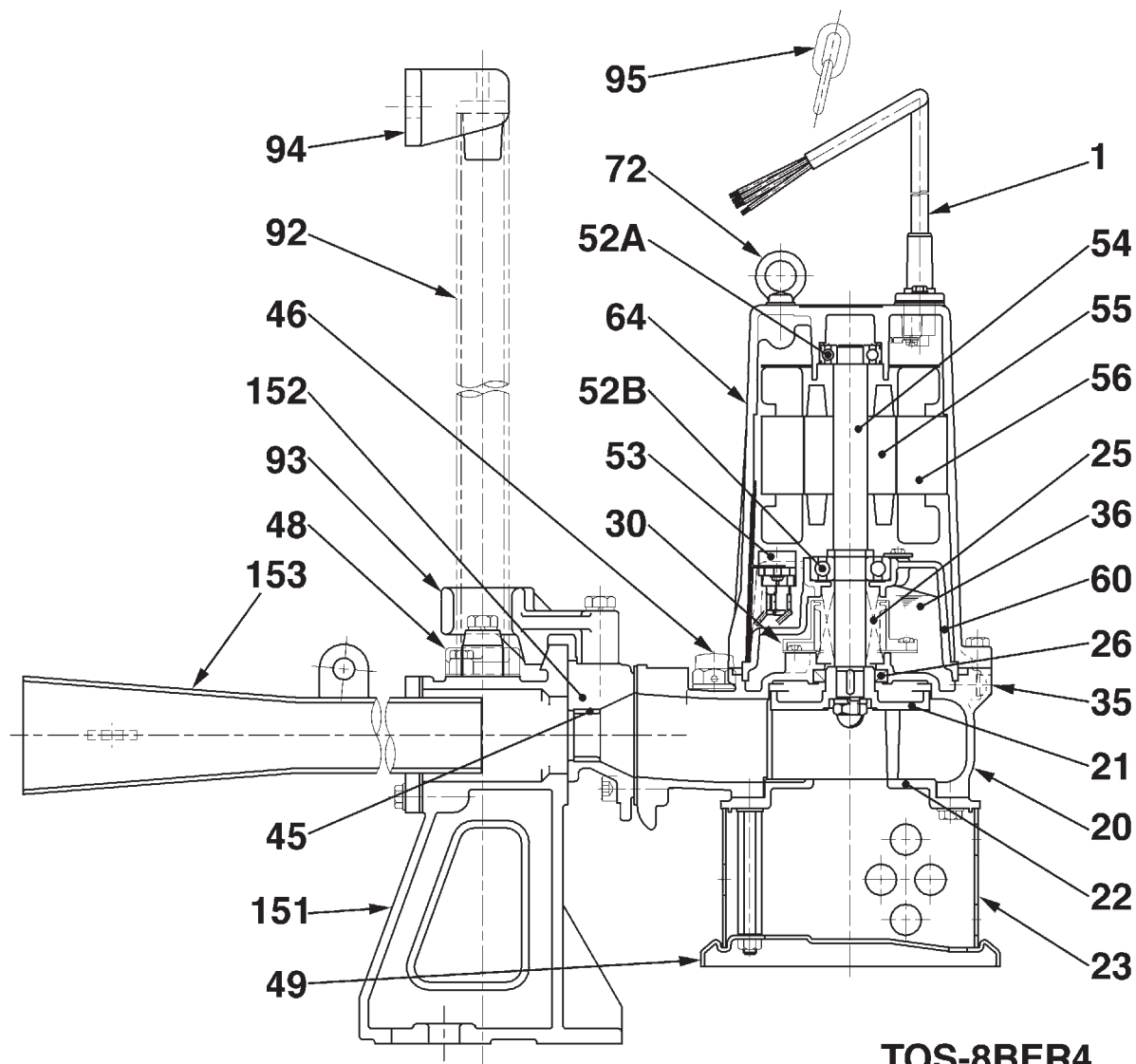


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Nr.	Bezeichnung	St.	Bemerkungen	Nr.	Bezeichnung	St.	Bemerkungen
1	Cabtyre Cable	1	H07RN-F	52A	Upper Bearing	1	6203ZZC3
20	Pump Casing	1	FC200 (EN-GJL-200)	52B	Lower Bearing	1	6304ZZC3
21	Impeller	1	FC200 (EN-GJL-200)	53	Motor Protector	1	
22	Suction Cover	1	FC200 (EN-GJL-200)	54	Shaft	1	SUS403 (EN-X6Cr13)
23	Strainer Stand	1	Steel Plate SPCC	55	Rotor	1	
25	Mechanical Seal	1	H-20A	56	Stator Complete	1	
26	Oil Seal	1	DD-32488	60	Bearing Housing	1	FC150 (EN-GJL-150)
30	Oil Lifter	1	Plastic	64	Motor Frame	1	FC150 (EN-GJL-150)
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)	72	Lifting Eye Bolt	2	SS400 (DIN 1.0040)
36	Lubricant		Turbine Oil (ISO VG32)	95	Lifting Chain	1	SS400 (DIN 1.0040)
45	Nozzle Ring	1	Stainless Iron Casting	151	Air-Inlet Casing	1	FC150 (EN-GJL-150)
46	Air Release Valve	1	Brass Rod	153	Diffuser	1	SS400 (DIN 1.0040) Nylon-coated
48	Screw Flange	1	FC200 (EN-GJL-200)				
49	Bottom Plate	1	Steel Plate SPCC				

Sectional Drawing

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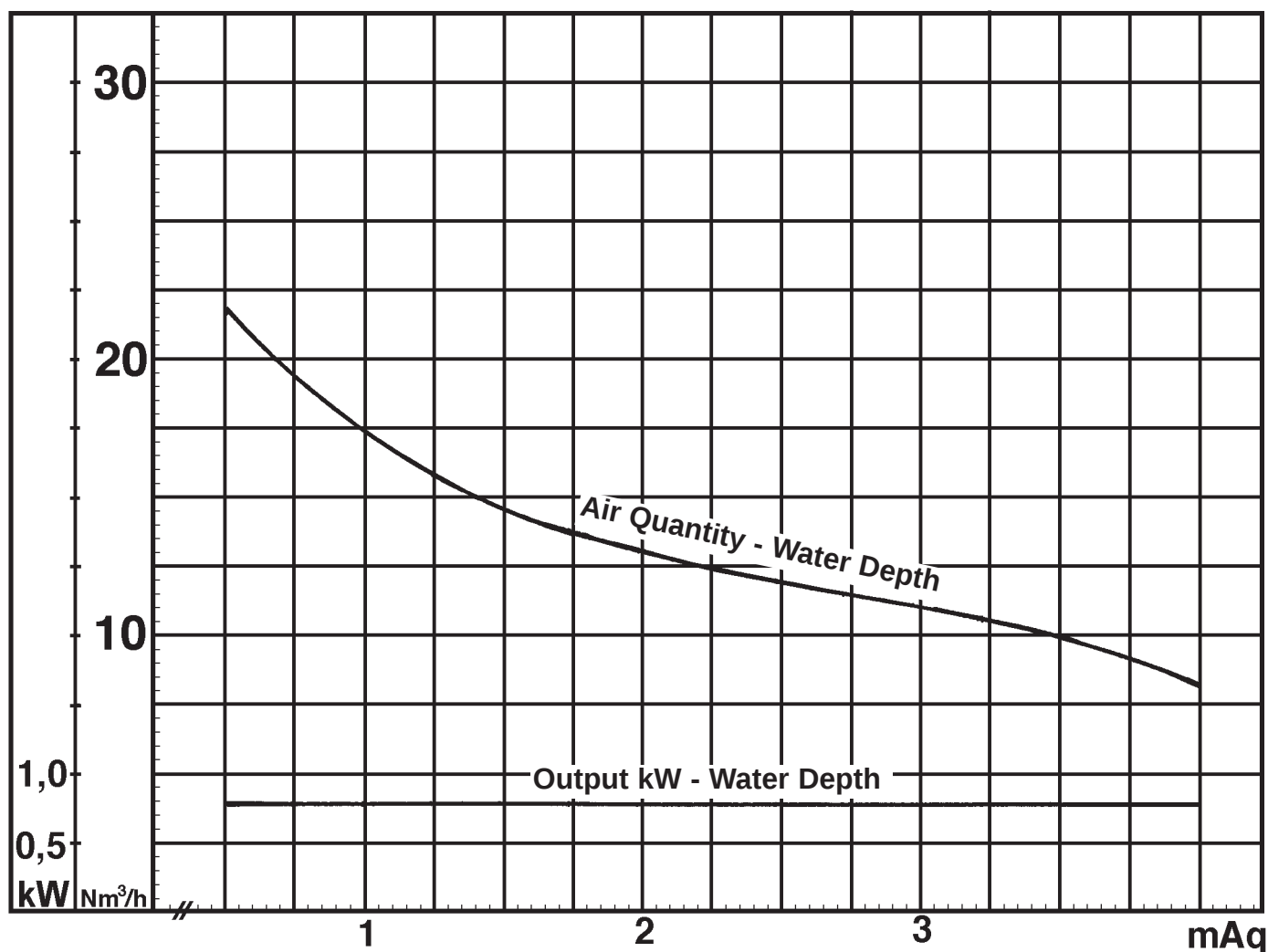
TOS-8BER4

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F	56	Stator Complete	1	
20	Pump Casing	1	FC200 (EN-GJL-200)	60	Bearing Housing	1	FC150 (EN-GJL-150)
21	Impeller	1	FC200 (EN-GJL-200)	64	Motor Frame	1	FC150 (EN-GJL-150)
22	Suction Cover	1	FC200 (EN-GJL-200)	72	Lifting Eye Bolt	2	SS400 (DIN 1.0040)
23	Pump Stand	1	Steel Plate SPHC	92	Guide Pipe (Option)	2	Carbon Steel Pipe SGPW
25	Mechanical Seal	1	H-20A	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
26	Oil Seal	1	DD-32488	94	Guide Support	1	FCD450 (EN-GJS-450-10)
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)	95	Lifting Chain	1	SS400 (DIN 1.0040)
36	Lubricant		Turbine Oil (ISO VG32)	151	Air-Inlet Casing	1	FC200 (EN-GJL-200)
46	Air Release Valve	1	Brass Rod	152	Nozzle	1	FC200 (EN-GJL-200)
49	Bottom Plate	1	Steel Plate SPCC	153	Diffuser	1	SS400 (DIN 1.0040) Nylon-coated
52A	Upper Bearing	1	6203ZZC3				
52B	Lower Bearing	1	6304ZZC3				
53	Motor Protector	1					
54	Shaft	1	SUS403 (EN-X6Cr13)				
55	Rotor	1					

Aerator Performance Curve

8-BER4

Air Inlet Bore	25 mm
Air Quantity	11 Nm ³ /h
Water Depth	3 mAq
Max. Water Depth	4 mAq
Motor Output	0,75 kW
Motor Input	1,13 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	1,9 A
Starting Current	8,5 A
Poles	2
Revolution	S.S. 2810 r.p.m.
Starting Method	direct on line
Insulation Class	E



8-BER4