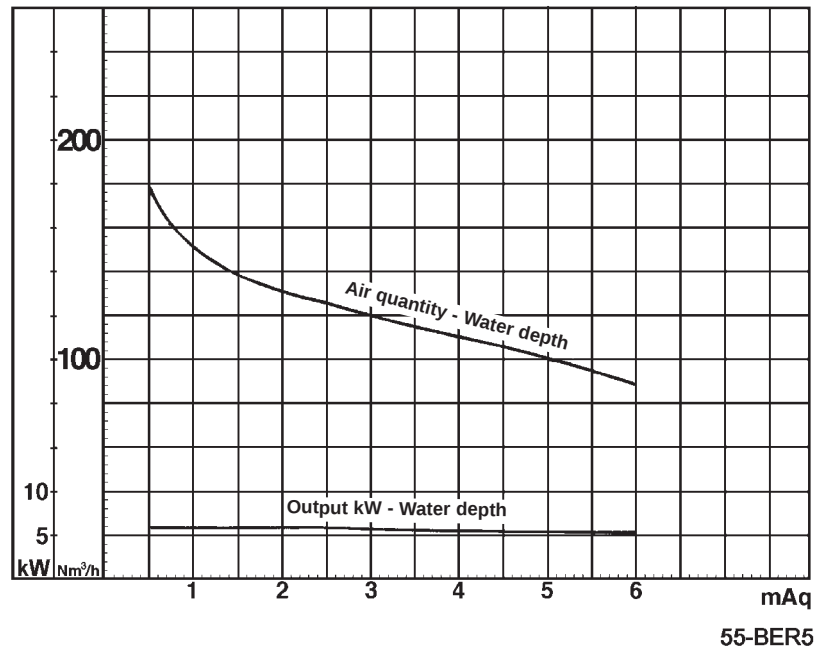
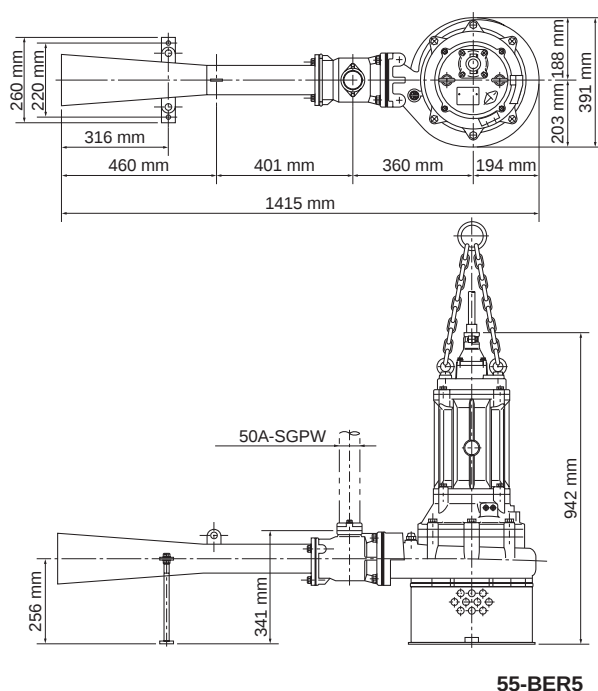


Data Sheet 55-BER5



Classification

Electric submersible aerator
 Protection class IP68
 Depth of submersion max. 30m
 2-channel impeller, shrouded type
 Solid handling max. 35mm
 Purpose: aeration of activated sludge
 (municipal sewage only)

Electric Motor

Dry-type submersible induction motor,
 Insulation class F, 4 poles, 1443 r.p.m.
 Direct on line start
 Voltage: 400V, 50Hz, 3-phase
 Power input: 6,92kW
 Power output: 5,50kW
 Nominal current: 12,1A
 Start current: 63,0A

Electric Cable

10m H07RN-F 4Cx2,5mm²

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:
 ceramic on carbon

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:	FC200 (EN-GJL-200)
Shaft:	SUS420J2 (EN-X30Cr13)
Ejector:	SS400 (DIN 1.0040) nylon coated
TOS-Ejector:	SS400 (DIN 1.0040) nylon coated

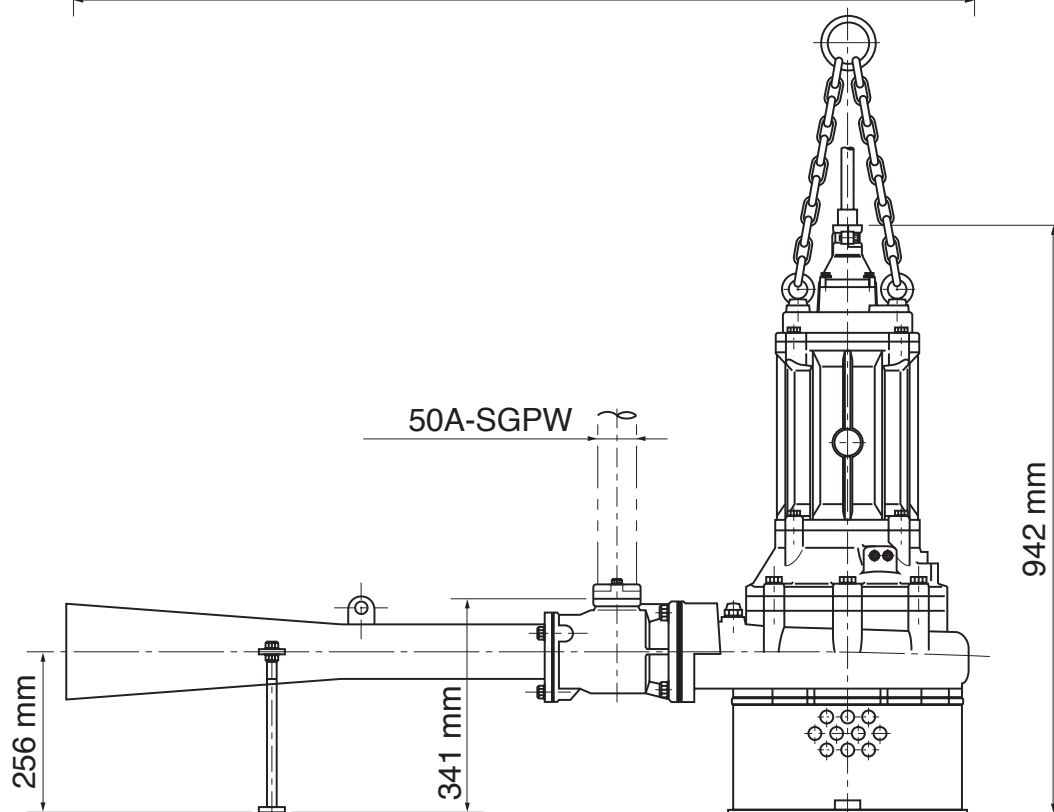
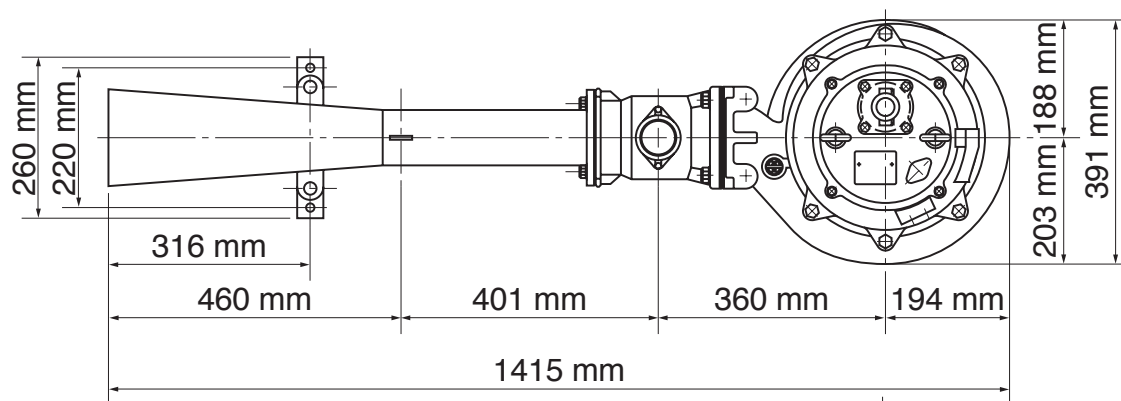
Weight

149 kg (dry weight of the pump without cable)

Air inlet

50 mm screwed-in flange
 Guide rail fitting optional

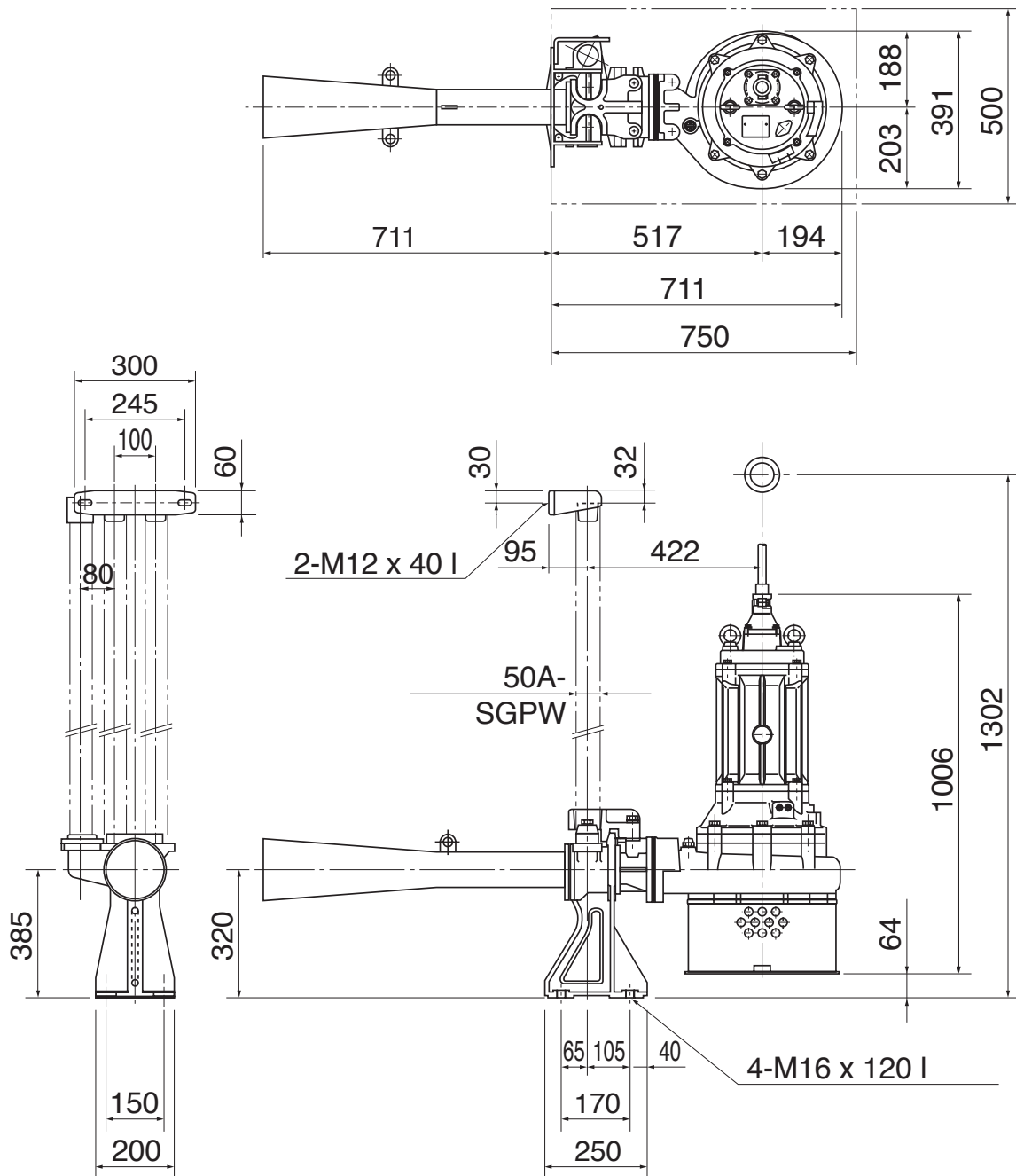
Dimensional Drawing 55-BER5



55-BER5

Dimensional Drawing TOS-55BER5

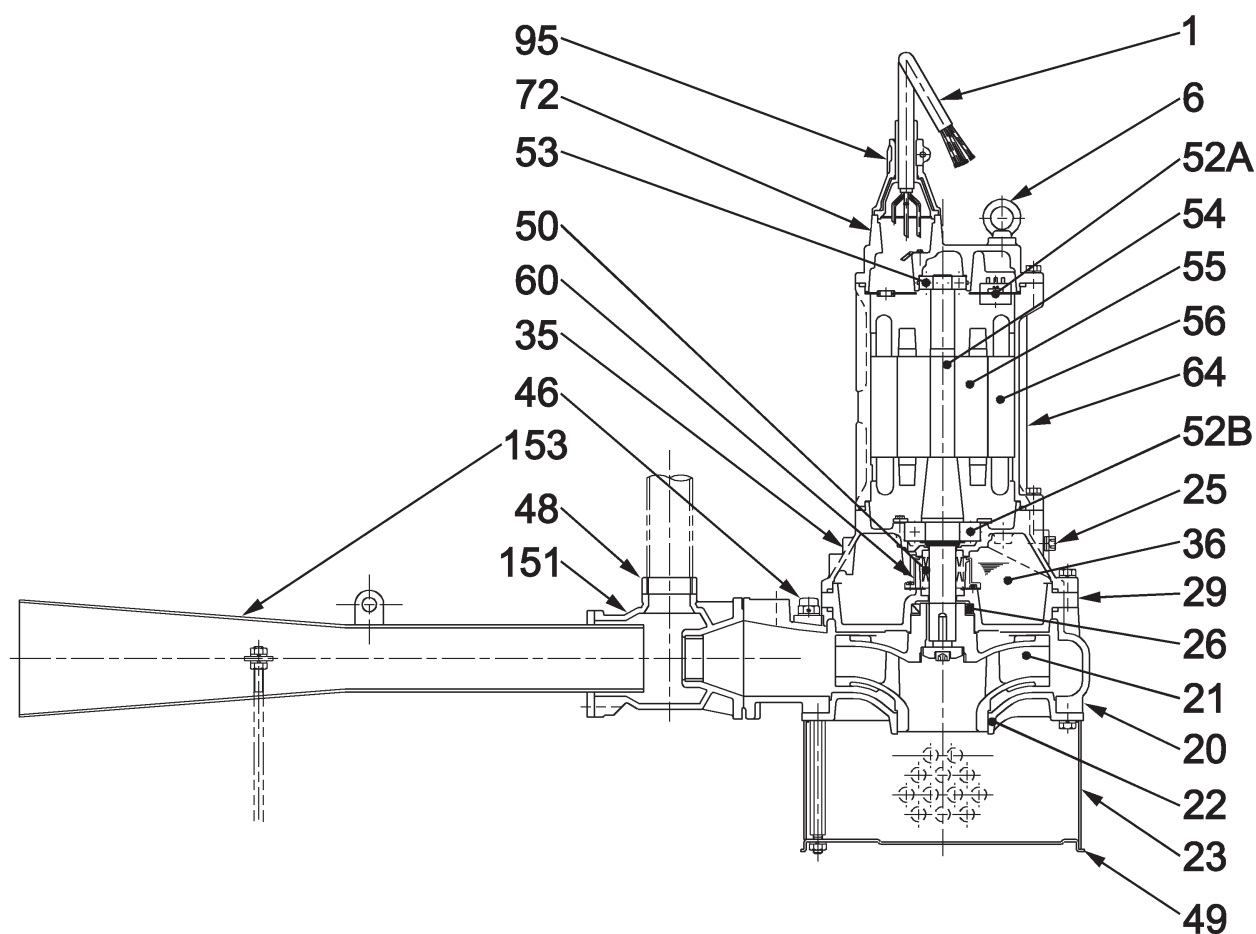
Dimensions in mm



TOS-55BER5

Sectional Drawing

55-BER5

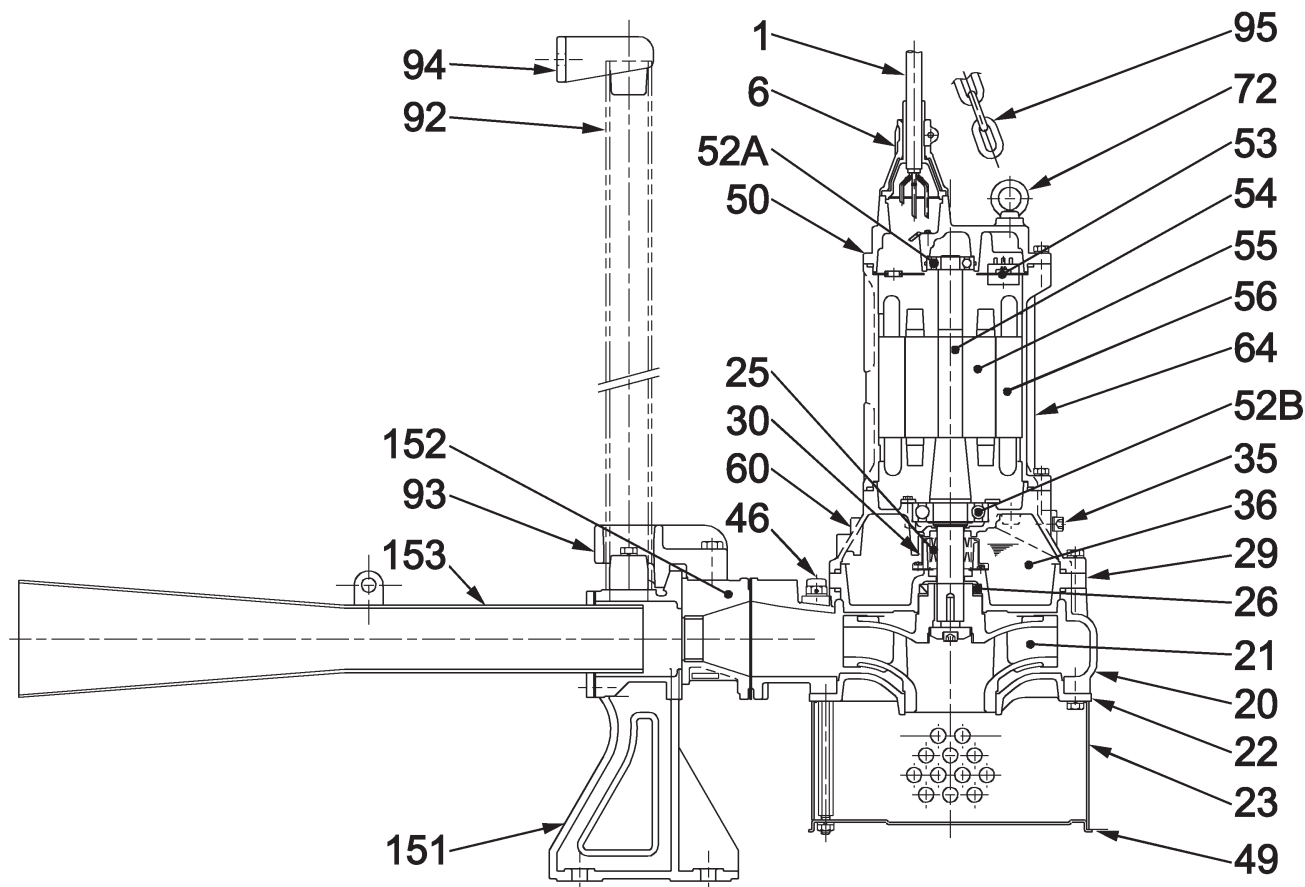


55-BER5

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	10m H07RN-F 4Cx2,5mm ²	52B	Lower Bearing	1	6309ZZC3
6	Stuffing Box	1	FC200 (EN-GJL-200)	53	Motor Protector	1	
20	Pump Casing	1	FC200 (EN-GJL-200)	54	Shaft	1	SUS420J2 (EN-X30Cr13)
21	Impeller	1	FC200 (EN-GJL-200)	55	Rotor	1	
22	Suction Cover	1	FC200 (EN-GJL-200)	56	Stator Complete	1	
23	Pump Stand	1	Steel Plate SPCC	60	Bearing Housing	1	FC200 (EN-GJL-200)
25	Mechanical Seal	1	H-35A	64	Motor Frame	1	FC200 (EN-GJL-200)
26	Oil Seal	1	TC-608212	72	Lifting Eye Bolt	2	SS400 (DIN 1.0040)
29	Oil Casing	1	FC200 (EN-GJL-200)	151	Air-Inlet Casing	1	FC200 (EN-GJL-200)
30	Oil Lifter	1	Plastic	153	Diffuser	1	SS400 (DIN1.0040) Nylon-coated
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)				
36	Lubricant		Turbine Oil (ISO VG32)				
46	Air Release Valve	1	Nylon				
49	Bottom Plate	1	Steel Plate SPCC				
50	Motor Bracket	1	FC200 (EN-GJL-200)				
52A	Upper Bearing	1	6305ZZC3				

Sectional Drawing

TOS-55BER5



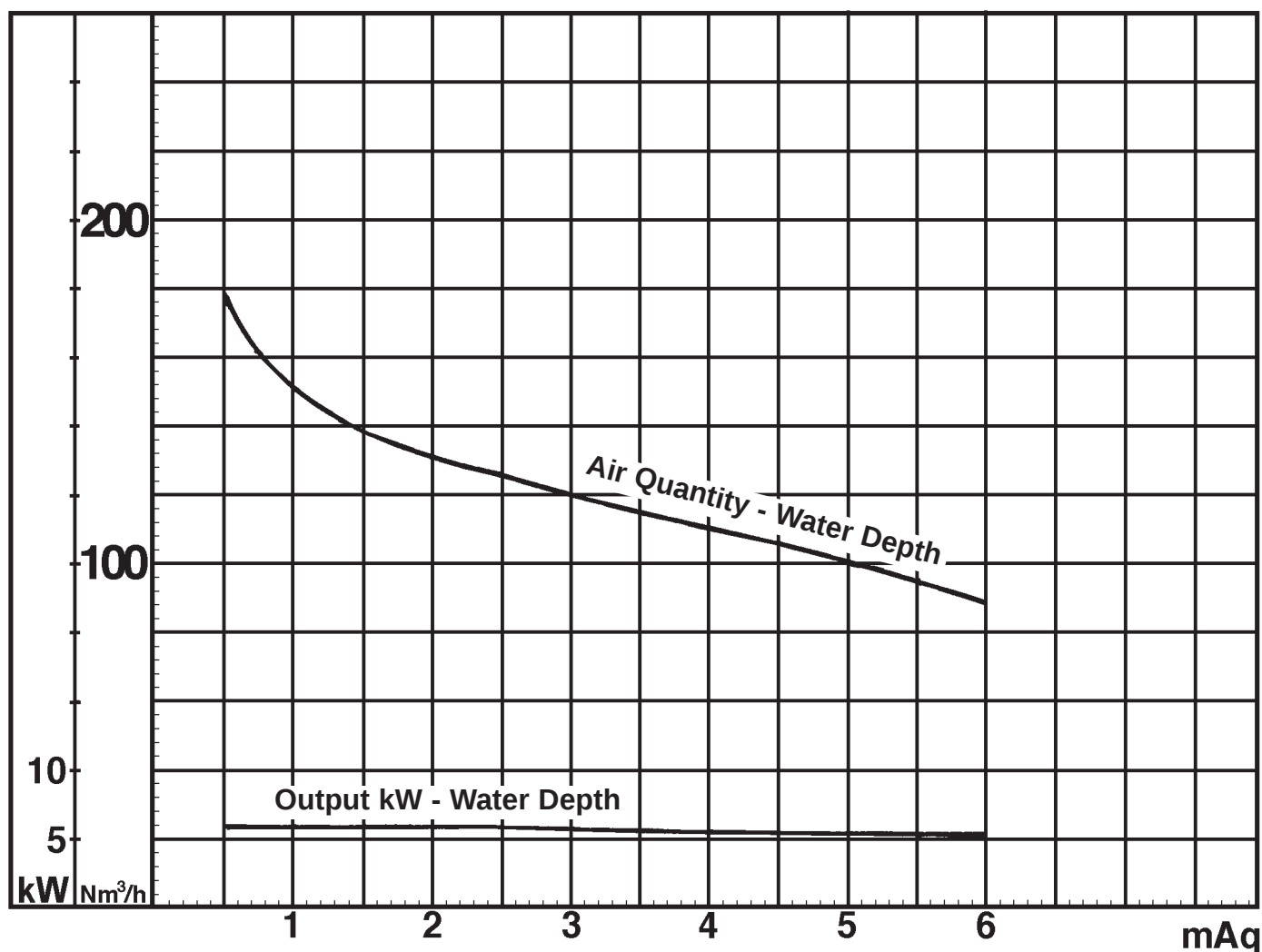
TOS-55BER5

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	10m H07RN-F 4Cx2,5mm ²	52B	Lower Bearing	1	6309ZZC3
6	Stuffing Box	1	FC200 (EN-GJL-200)	53	Motor Protector	1	
20	Pump Casing	1	FC200 (EN-GJL-200)	54	Shaft	1	SUS420J2 (EN-X30Cr13)
21	Impeller	1	FC200 (EN-GJL-200)	55	Rotor	1	
22	Suction Cover	1	FC200 (EN-GJL-200)	56	Stator Complete	1	
23	Pump Stand	1	Structure Steel SPCC	60	Bearing Housing	1	FC200 (EN-GJL-200)
25	Mechanical Seal	1	H-35A	64	Motor Frame	1	FC200 (EN-GJL-200)
26	Oil Seal	1	TC-608212	72	Lifting Eye Bolt	2	SS400 (DIN 1.0040)
29	Oil Casing	1	FC200 (EN-GJL-200)	92	Guide Pipe (Option)	2	Carbon Steel Pipe SGPW
30	Oil Lifter	1	Plastic	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
35	Oil Plug	1	SS304 (EN-X5CrNi18-10)	94	Guide Support	1	FCD450 (EN-GJS-450-10)
36	Lubricant		Turbine Oil (ISO VG32)	95	Lifting Chain	1	SS400 (DIN 1.0040)
46	Air Release Valve	1	Nylon	151	Air-Inlet Casing	1	FC200 (EN-GJL-200)
49	Bottom Plate	1	Steel Plate SPCC	152	Nozzle	1	FC200 (EN-GJL-200)
50	Motor Bracket	1	FC200 (EN-GJL-200)	153	Diffuser	1	SS400 (DIN 1.0040) Nylon-coated
52A	Upper Bearing	1	6305ZZC3				

Aerator Performance Curve

55-BER5

Air Inlet Bore	50 mm
Air Quantity	120 Nm ³ /h
Water Depth	3 mAq
Max. Water Depth	6 mAq
Motor Output	5,50 kW
Motor Input	6,92 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	12,1 A
Starting Current	63,0 A
Poles	4
Revolution	S.S. 1443 r.p.m.
Starting Method	direct on line
Insulation Class	F



55-BER5