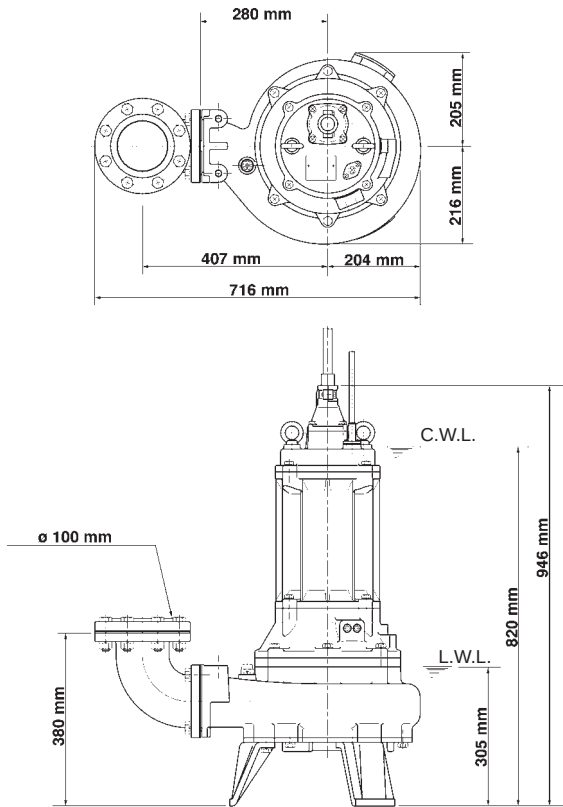
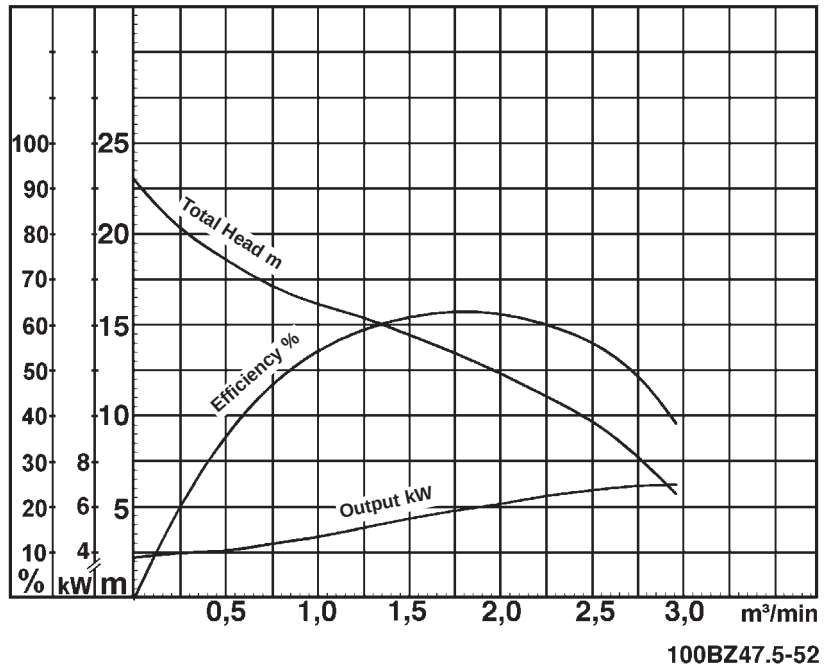


Data Sheet 100BZ47.5-52



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

100BZ47.5-52



Classification

Electric submersible pump
Protection class IP68
Depth of submersion max. 30m
1-channel impeller, non-clogging type
Impeller passage 80mm
Suitable for sewage water, various waste water

Electric Motor

Dry-type submersible induction motor,
Insulation class F, 4 poles, 1455 r.p.m.
Direct on line start

Voltage:	400V, 50Hz, 3-phase
Power input:	9,16kW
Power output:	7,5kW
Nominal current:	15,9A
Start current:	89,0A

Electric Cable

10m H07RN-F 4Cx4mm²
10m 2PNCT 2Cx1,25mm²

Motor Protection

Miniature protector in windings (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-150)
Shaft:	SUS420J2 (EN-X30Cr13)

Discharge Connection

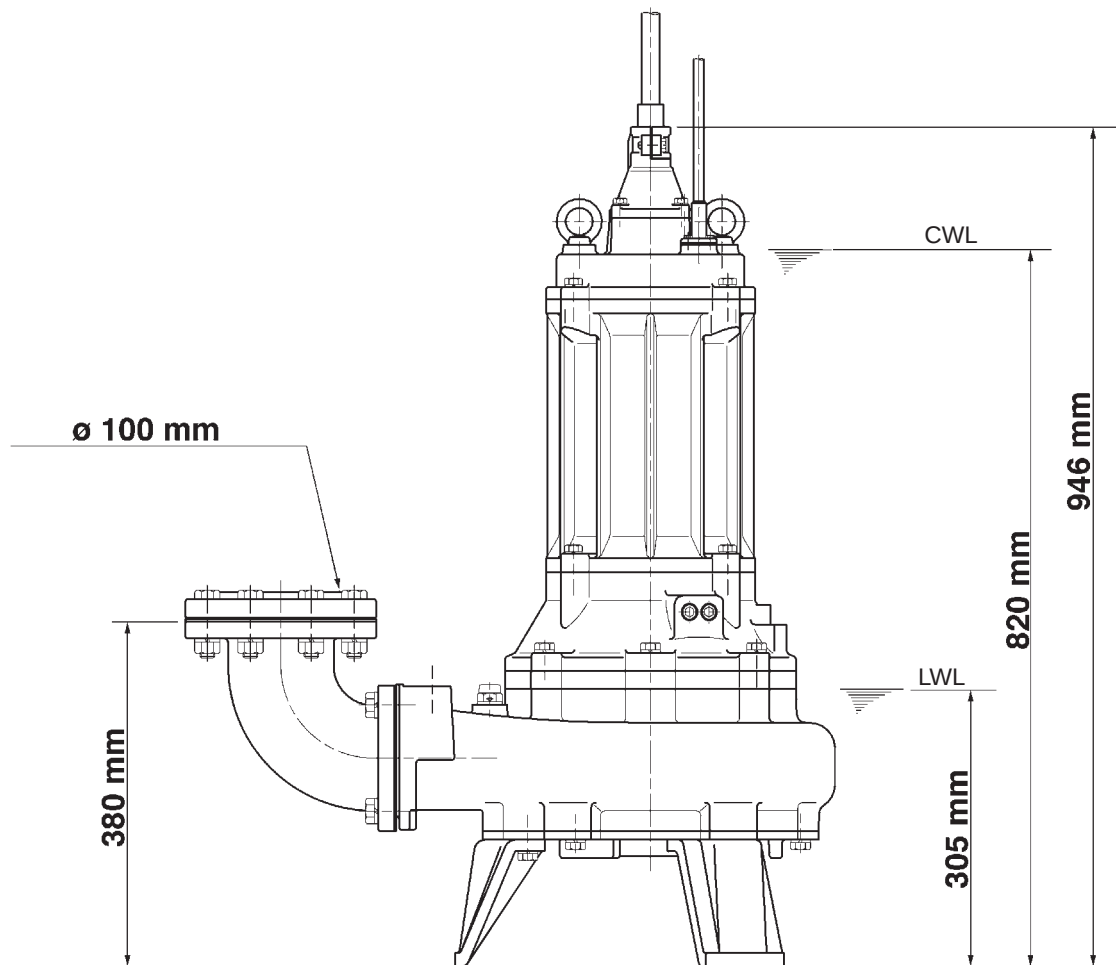
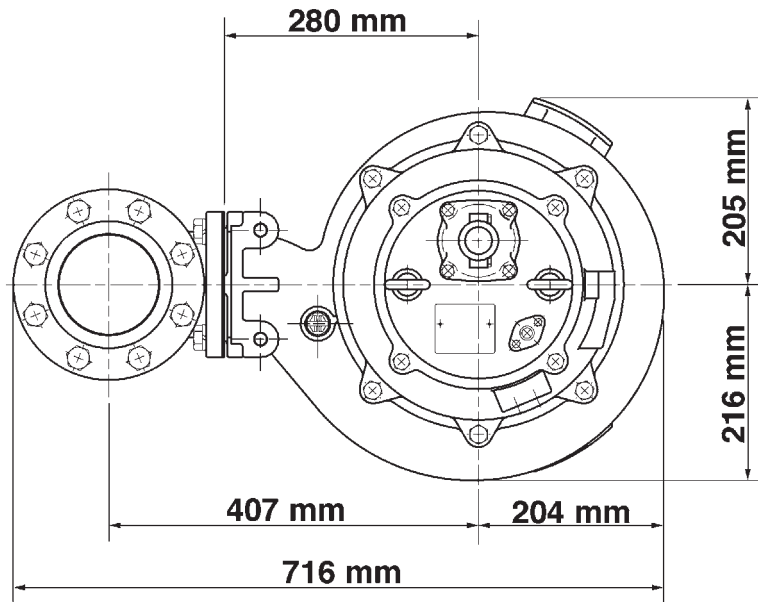
4" (100mm) JIS10K screwed-in mating flange
Guide rail fitting optional

Weight

194 kg (dry weight of the pump without cable)

Dimensional Drawing

100BZ47.5-52



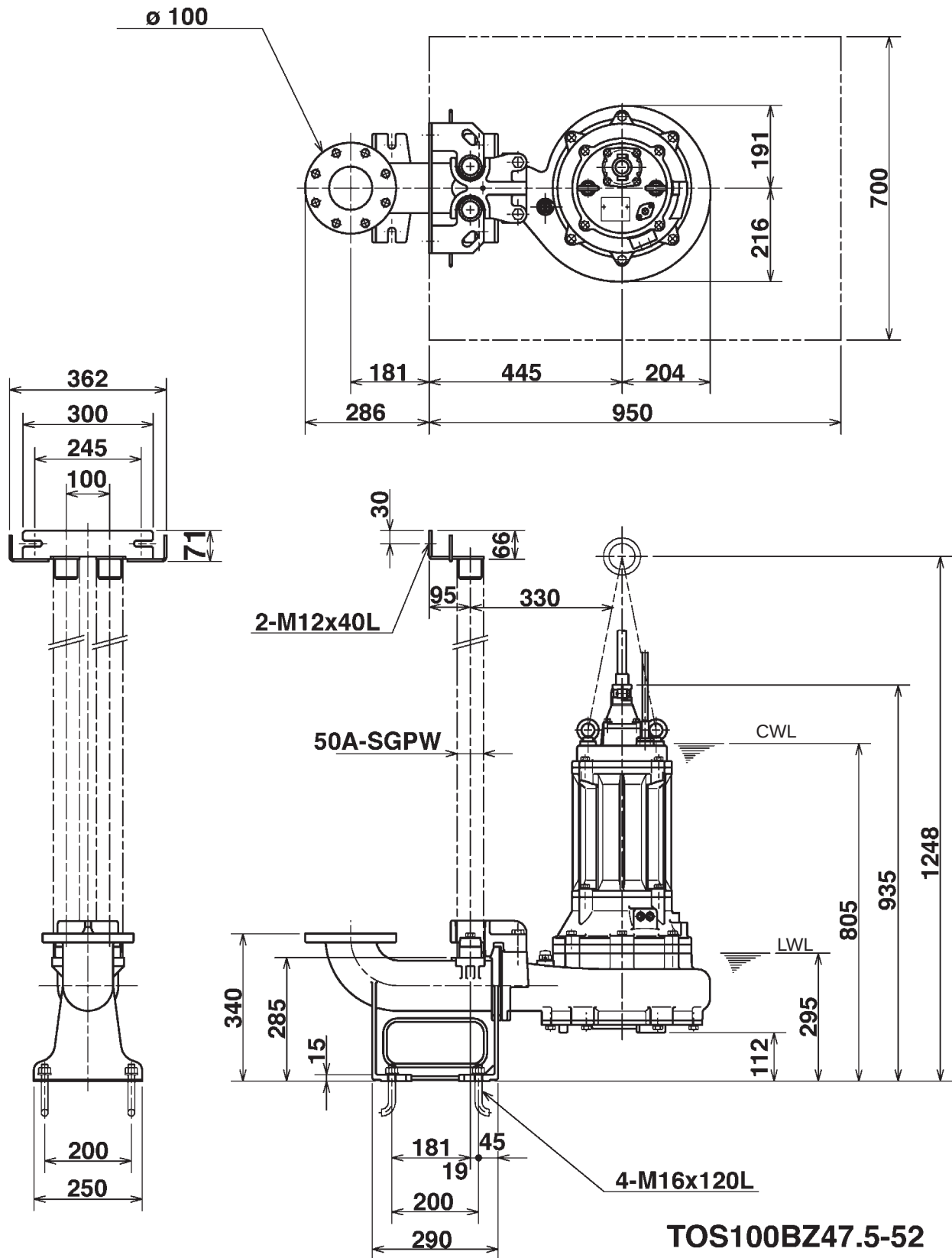
100BZ47.5-52

CWL: Continuous Running Water Level

LWL: Lowest Running Water Level

TOS100BZ47.5-52

Dimensions in mm

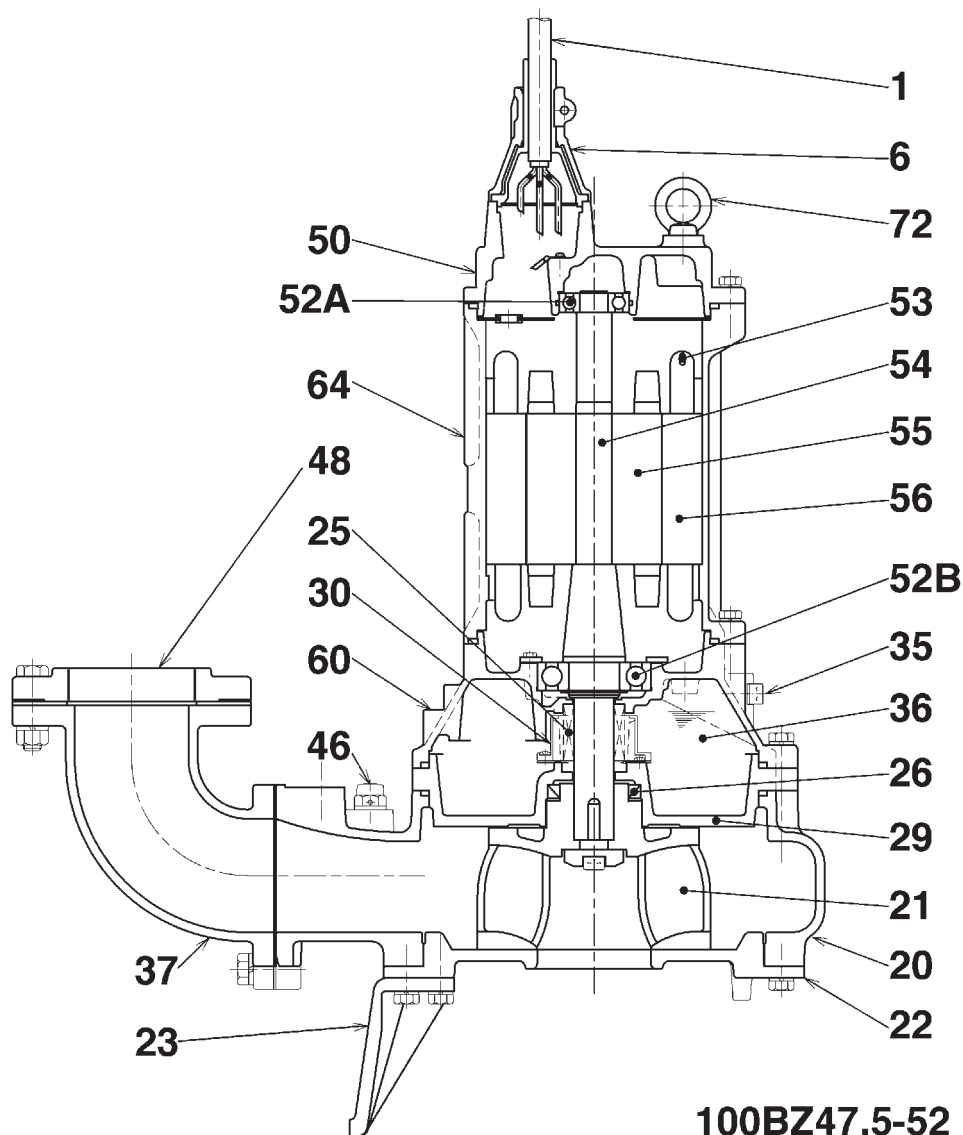


CWL: Continuous Running Water Level

LWL: Lowest Running Water Level

Sectional Drawing

100BZ47.5-52

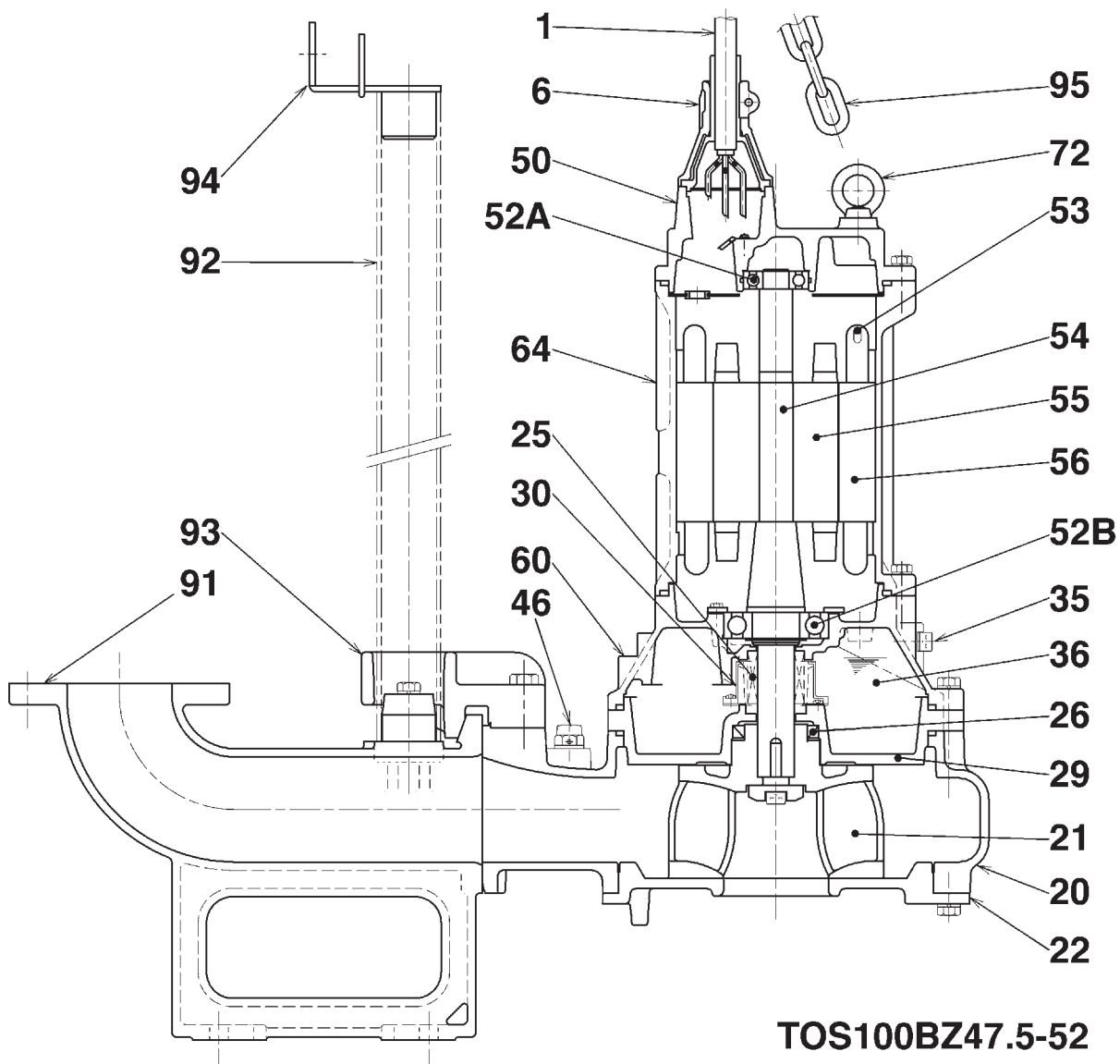


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No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F 4Cx4mm ²	48	Screwed Flange	1	FC200 (EN-GJL-200)
6	Stuffing Box	1	FC200 (EN-GJL-200)	50	Motor Bracket	1	FC200 (EN-GJL-200)
20	Pump Casing	1	FC200 (EN-GJL-200)	52A	Upper Bearing	1	6306ZZC3
21	Impeller	1	FC200 (EN-GJL-200)	52B	Lower Bearing	1	6309ZZC3
22	Suction Cover	1	FC200 (EN-GJL-200)	53	Motor Protector	3	
23	Stand	3	FC200 (EN-GJL-200)	54	Shaft	1	SUS420J2 (EN-X30Cr13)
25	Mechanical Seal	1	H-35A	55	Rotor	1	
26	Oil Seal	1	TC608212	56	Stator	1	
29	Oil Casing	1	FC200 (EN-GJL-200)	60	Bearing Housing	1	FC150 (EN-GJL-150)
30	Oil Lifter	1	Plastic	64	Motor Frame	1	FC150 (EN-GJL-150)
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)	72	Lifting Eyebolt	2	SS400 (DIN 1.0040)
36	Lubricant		Turbine Oil (ISO VG32)				
37	Discharge Bend	1	FC200 (EN-GJL-200)				
46	Air Release Valve	1	Nylon				

Sectional Drawing

TOS100BZ47.5-52



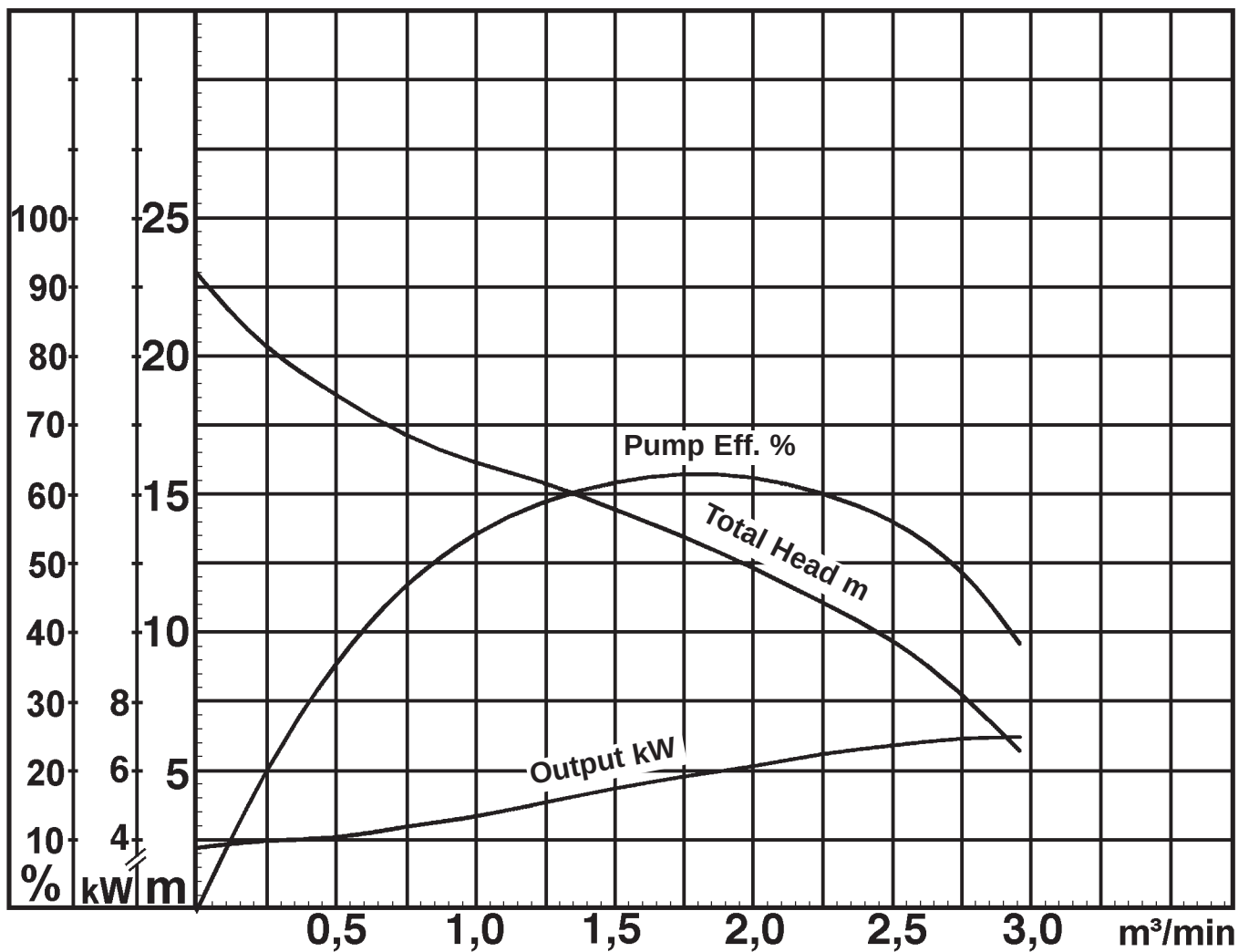
TOS100BZ47.5-52

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F 4Cx4mm ²	52B	Lower Bearing	1	6309ZZC3
6	Stuffing Box	1	FC200 (EN-GJL-200)	53	Motor Protector	3	
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	1	
25	Mechanical Seal	1	H-35A	60	Bearing Housing	1	FC150 (EN-GJL-150)
26	Oil Seal	1	TC608212	64	Motor Frame	1	FC150 (EN-GJL-150)
29	Oil Casing	1	FC200 (EN-GJL-200)	72	Lifting Eyebolt	2	SS400 (DIN 1.0040)
30	Oil Lifter	1	Plastic	91	Duck Foot Bend	1	FC200 (EN-GJL-200)
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)	92	Guide Pipe (Option)	2	Carbon Steel Pipe SGPW
36	Lubricant		Turbine Oil (ISO VG32)	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
46	Air Release Valve	1	Nylon	94	Guide Support	1	SUS304 (EN-X5CrNi18-10)
50	Motor Bracket	1	FC200 (EN-GJL-200)	95	Chain	1	SS400 (DIN 1.0040)
52A	Upper Bearing	1	6306ZZC3				

Pump Performance Curve

100BZ47.5-52

Discharge Bore	100 mm
Total Head	14,0 m
Capacity	1,6 m ³ /min
Motor Output	7,50 kW
Motor Input	9,16 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	15,9 A
Starting Current	89,0 A
Poles	4
Revolution	S.S. 1455 r.p.m.
Starting Method	direct on line
Insulation Class	F



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