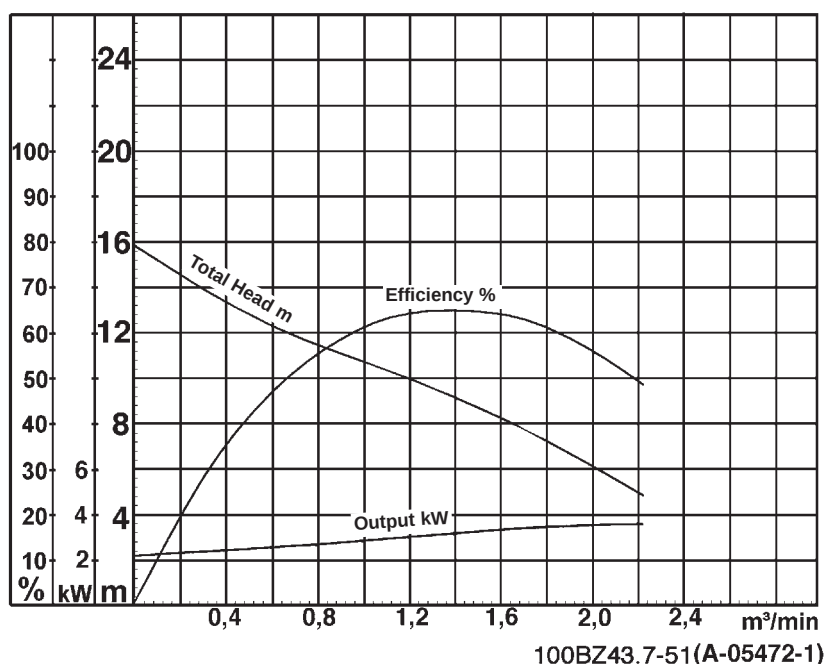
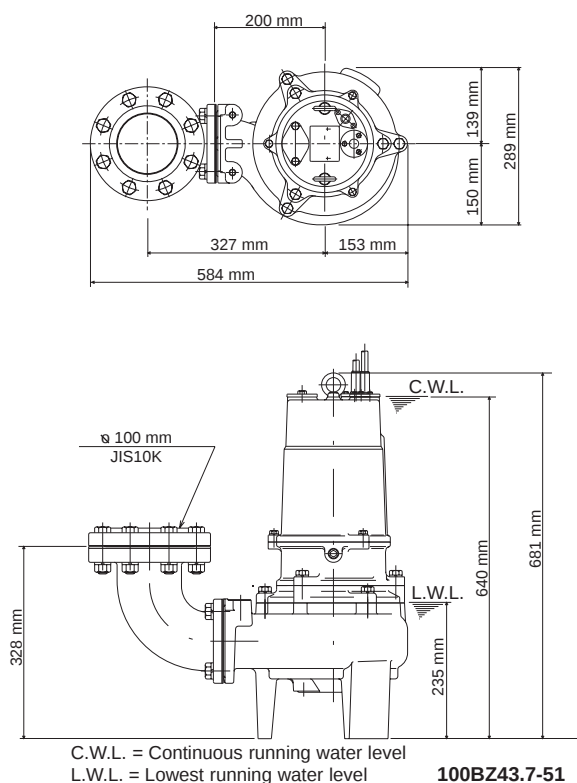


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Classification

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, 1410 r.p.m.
Direct on line start
Voltage: 400V, 50Hz, 3-phase
Power input: 4,59kW
Power output: 3,70kW
Nominal current: 7,9A
Start current: 49,0A

Electric Cable

10m H07RN-F 4Cx1,5mm²
10m VCT4Cx1,25mm²

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

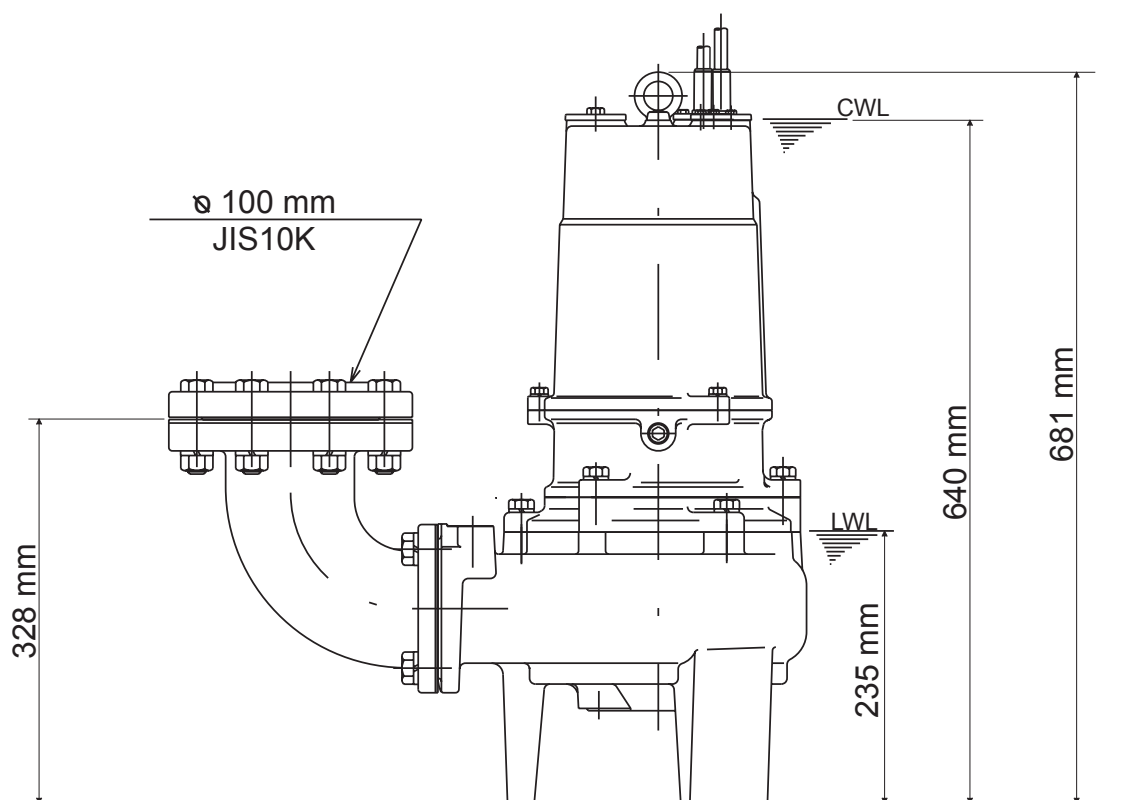
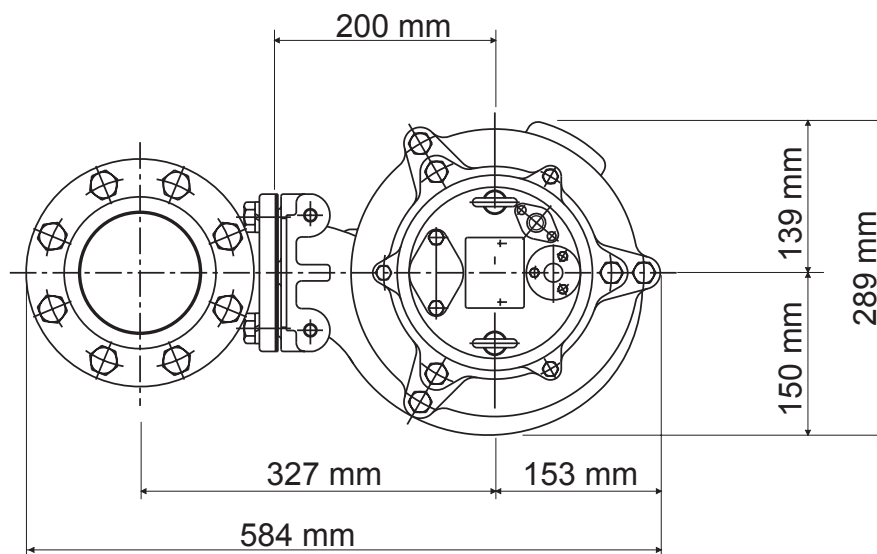
4" (100mm) JIS10K screwed-in mating flange
Guide rail fitting optional

Weight

100 kg (dry weight of the pump without cable)

Dimensional Drawing

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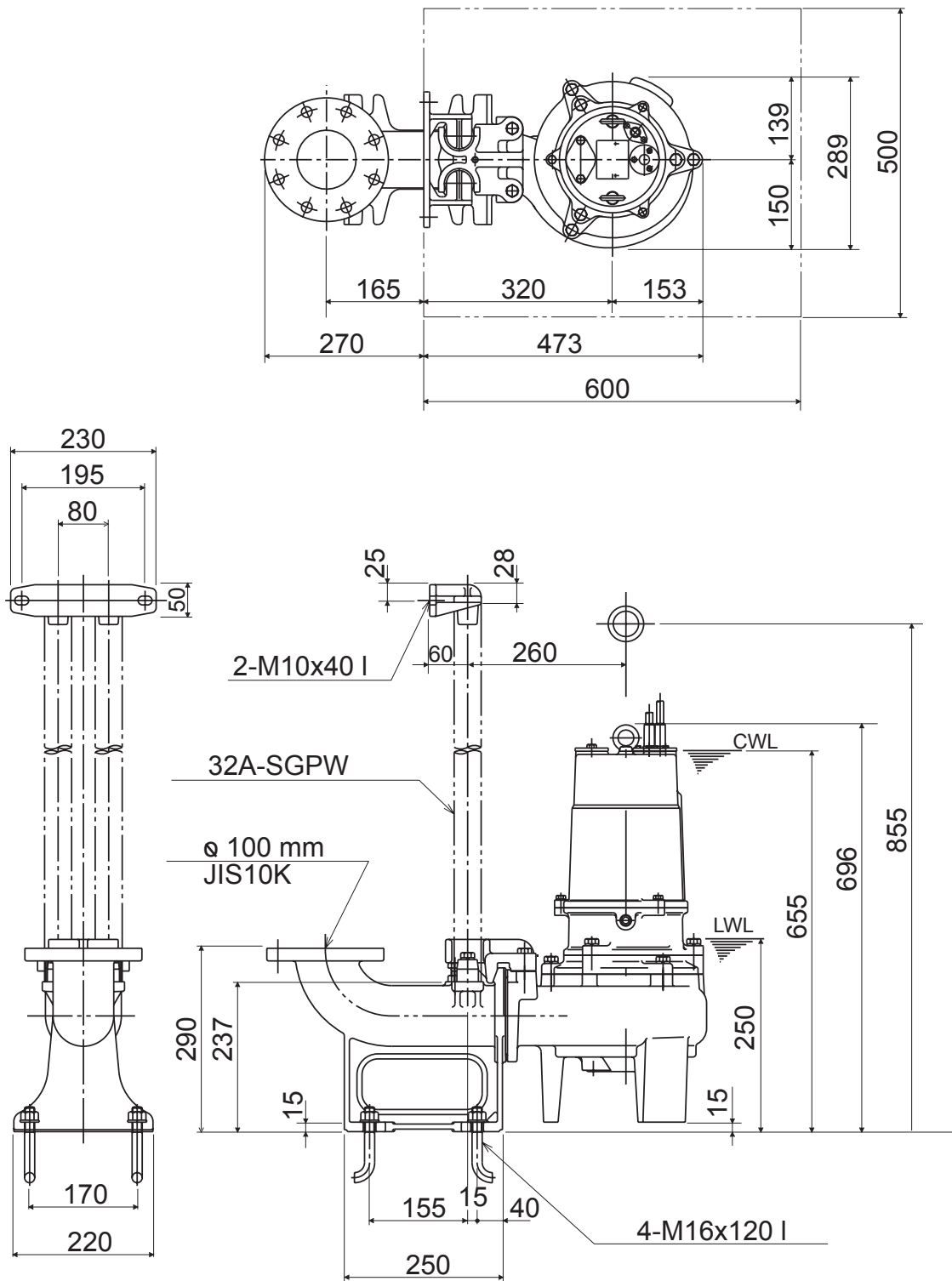


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CWL: Continuous Running Water Level
LWL: Lowest Running Water Level

TOS100BZ43.7-51

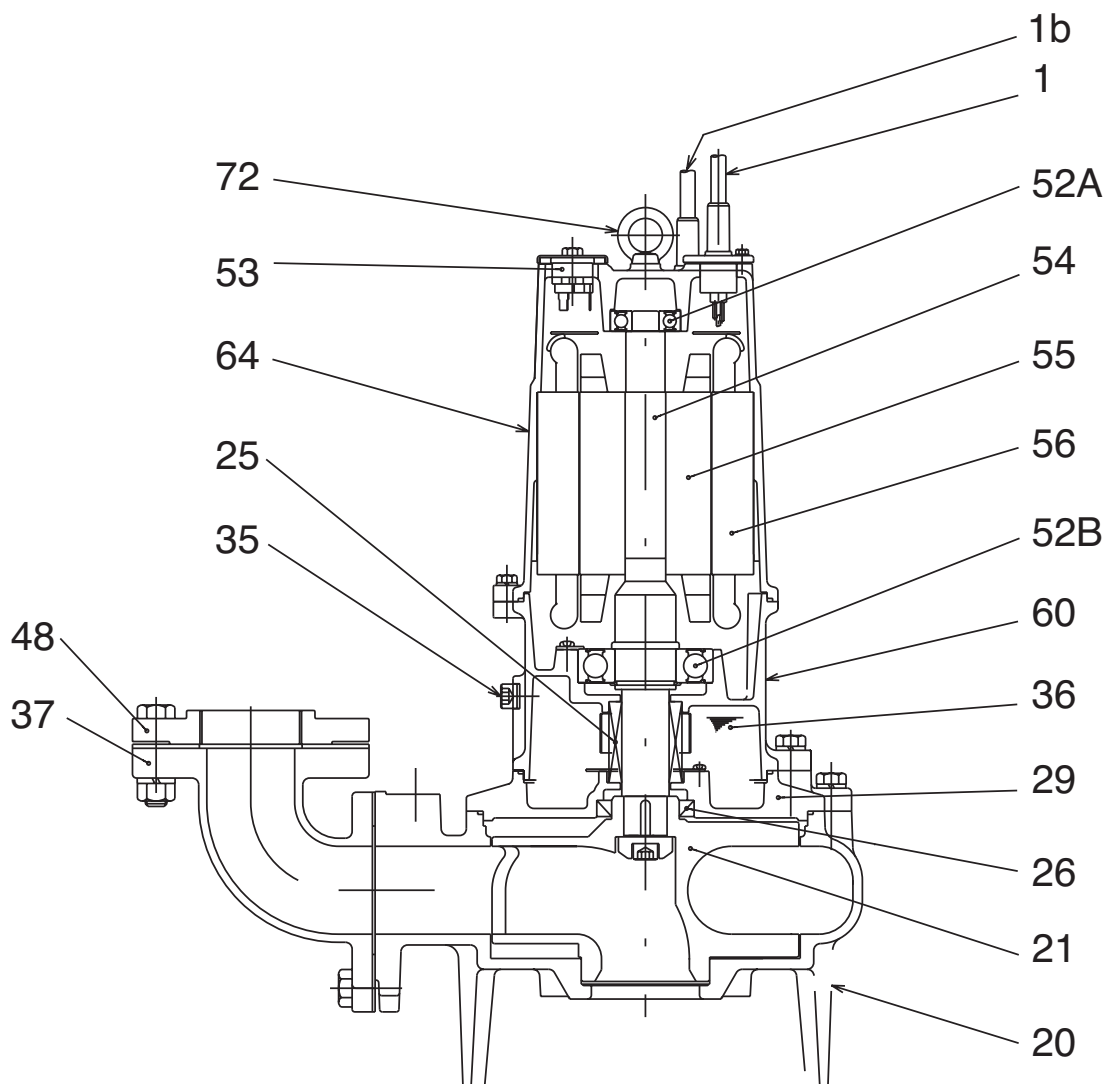
Dimensions in mm



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Sectional Drawing

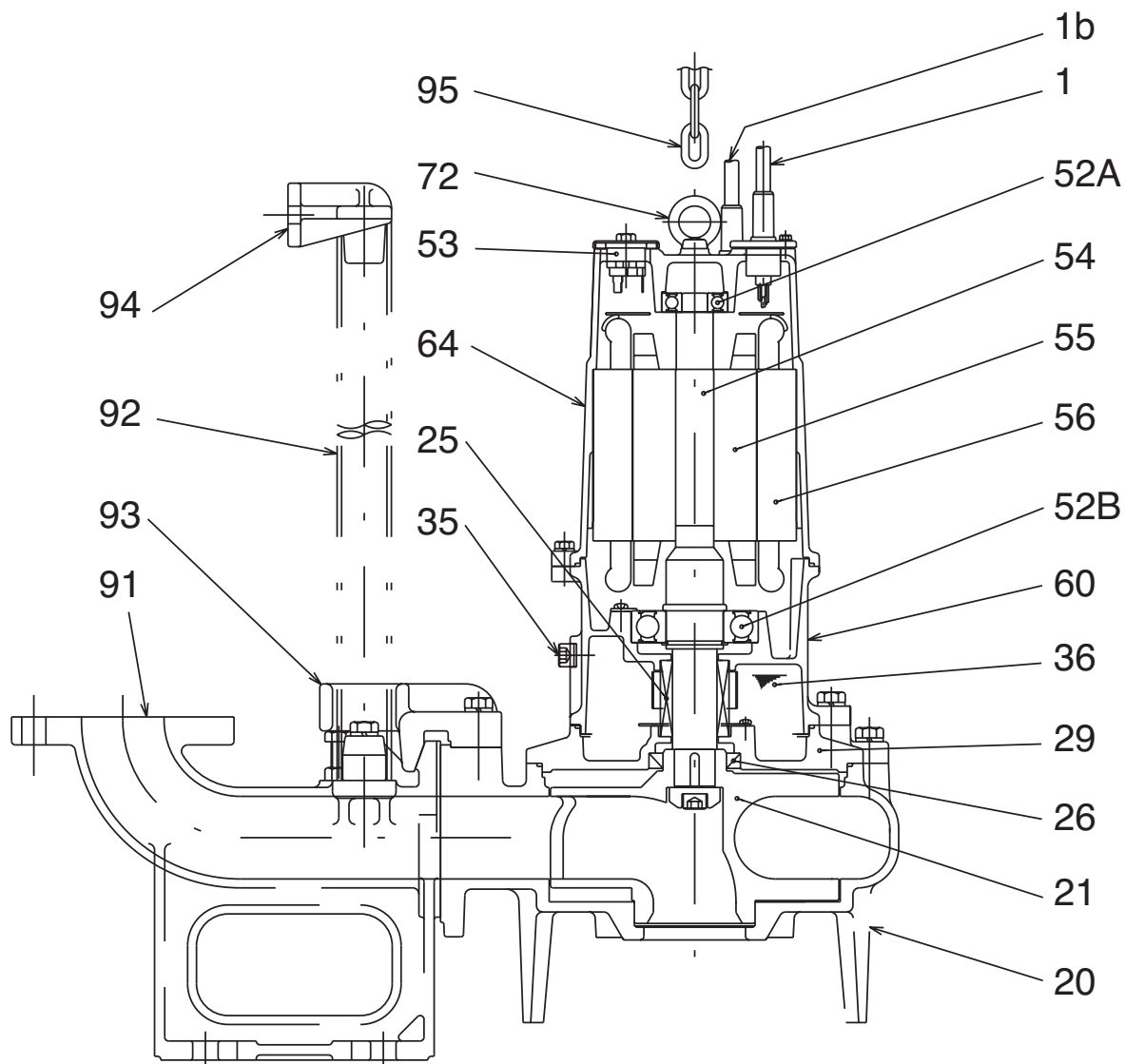
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No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F	54	Shaft	1	SUS420J2 (EN-X30Cr13)
1b	Thermal Protection Cable	1	VCT4Cx1,25SQ	55	Rotor	1	
20	Pump Casing	1	FC200 (EN-GJL-200)	56	Stator Complete	1	
21	Impeller	1	FC200 (EN-GJL-200)	60	Bearing Housing	1	FC150 (EN-GJL-150)
25	Mechanical Seal	1	H-35A	64	Motor Frame	1	FC150 (EN-GJL-150)
26	Oil Seal	1	TC507212	72	Lifting Eye Bolt	1	SUS304 (EN-X5CrNi18-10)
29	Oil Casing	1	FC200 (EN-GJL-200)				
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)				
36	Lubricant		Turbine Oil (ISO VG32)				
37	Discharge Bend	1	FC200 (EN-GJL-200)				
48	Screwed Flange	1	FC200 (EN-GJL-200)				
52A	Upper Bearing	1	6304ZZC3				
52B	Lower Bearing	1	6309ZZC3				
53	Motor Protector	3					

Sectional Drawing TOS100BZ43.7-51



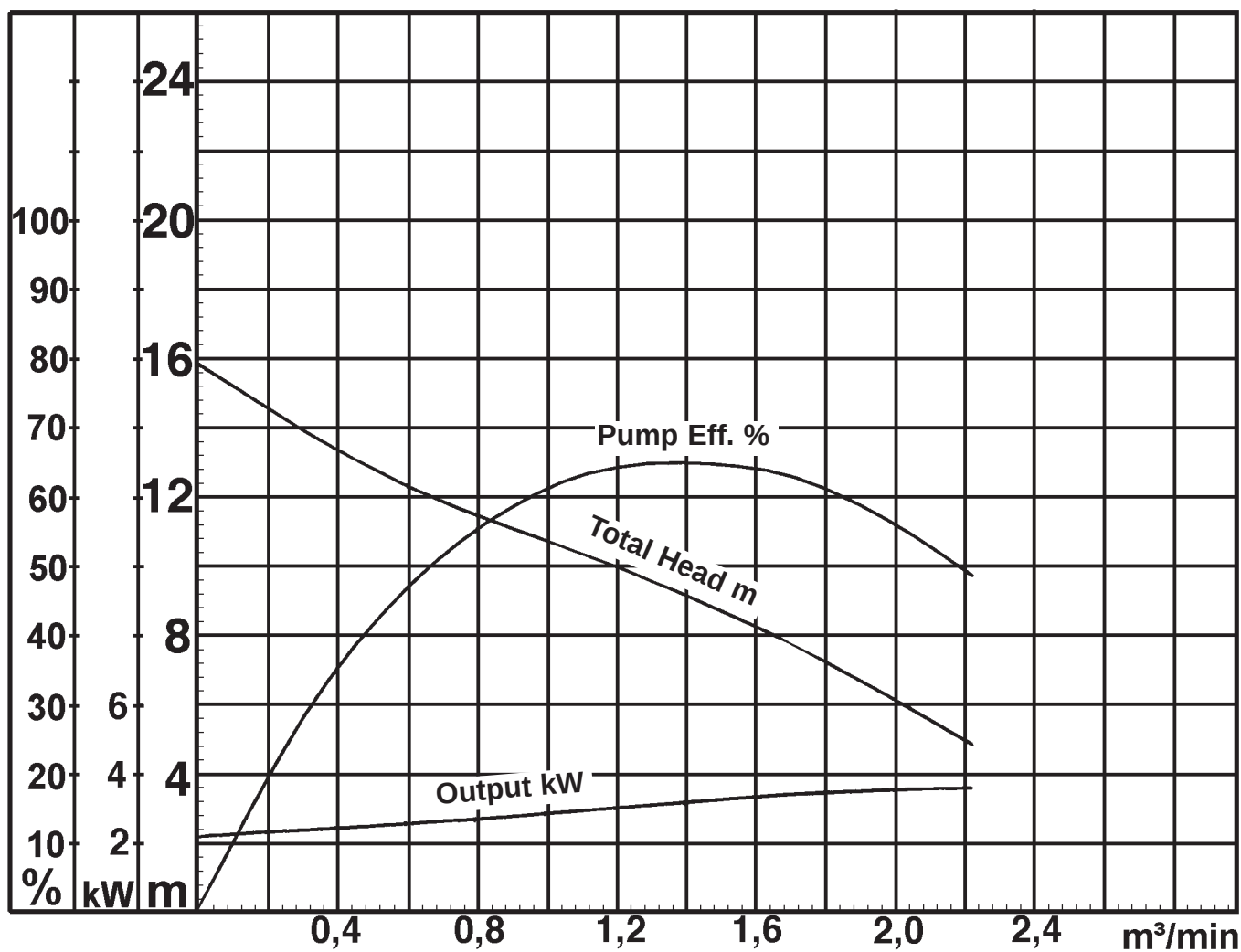
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No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F	56	Stator	1	
1b	Thermal Protection Cable	1	VCT4Cx1,25SQ	60	Bearing Housing	1	FC150 (EN-GJL-150)
20	Pump Casing	1	FC200 (EN-GJL-200)	64	Motor Frame	1	FC150 (EN-GJL-150)
21	Impeller	1	FC200 (EN-GJL-200)	72	Lifting Eye Bolt	2	SUS304 (EN-X5CrNi18-10)
25	Mechanical Seal	1	H-35A	91	Duck Foot Bend	1	FC200 (EN-GJL-200)
26	Oil Seal	1	TC507212	92	Guide Pipe (Option)	2	Galvanized Steel Pipe
29	Oil Casing	1	FC200 (EN-GJL-200)	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)	94	guide Support	1	SUS304 (EN-X5CrNi18-10)
36	Lubricant		Turbine Oil (ISO VG32)	95	Chain	1	SS400 (DIN 1.0040)
52A	Upper Bearing	1	6304ZZC3				
52B	Lower Bearing	1	6309ZZC3				
53	Motor Protector	3					
54	Shaft	1	SUS420J2 (EN-X30Cr13)				
55	Rotor	1					

Pump Performance Curve

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Discharge Bore	100 mm
Total Head	10,0 m
Capacity	1,2 m ³ /min
Motor Output	3,70 kW
Motor Input	4,59 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	7,9 A
Starting Current	49,0 A
Poles	4
Revolution	S.S. 1410 r.p.m.
Starting Method	direct on line
Insulation Class	F



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