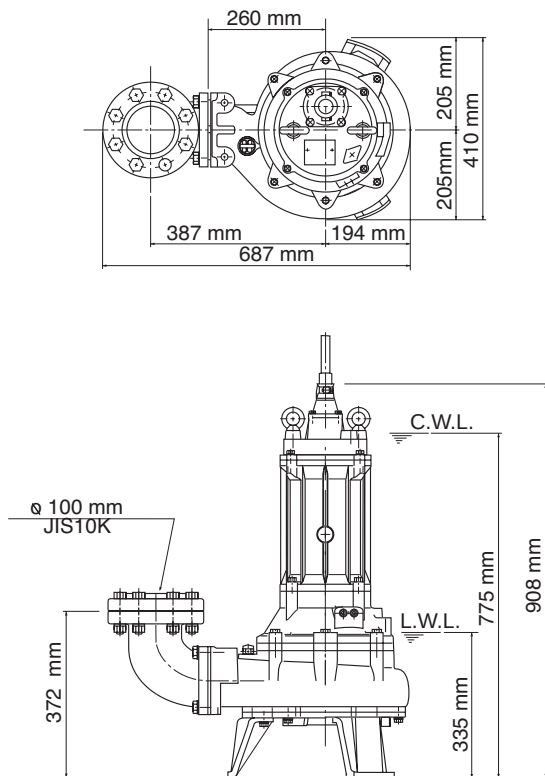
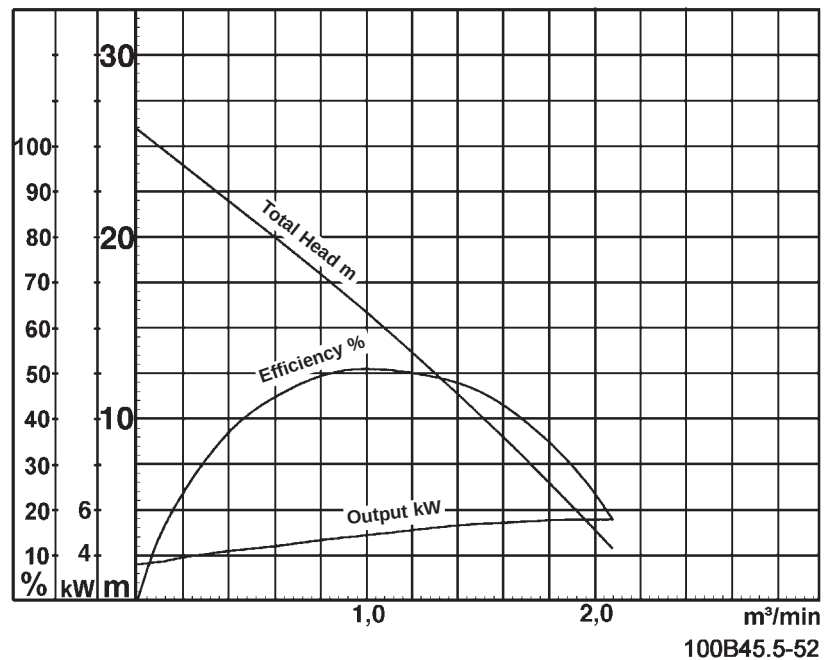


Data Sheet 100B45.5-52



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

100B45.5-52



Classification

Electric submersible pump
Protection class IP68
Depth of submersion max. 30m
2-channel impeller, shrouded type
Impeller passage 40mm
Suitable for sewage water, various waste water

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:
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:	FC200 (EN-GJL-150)
Shaft:	SUS403 (EN-X6Cr13)

Discharge Connection

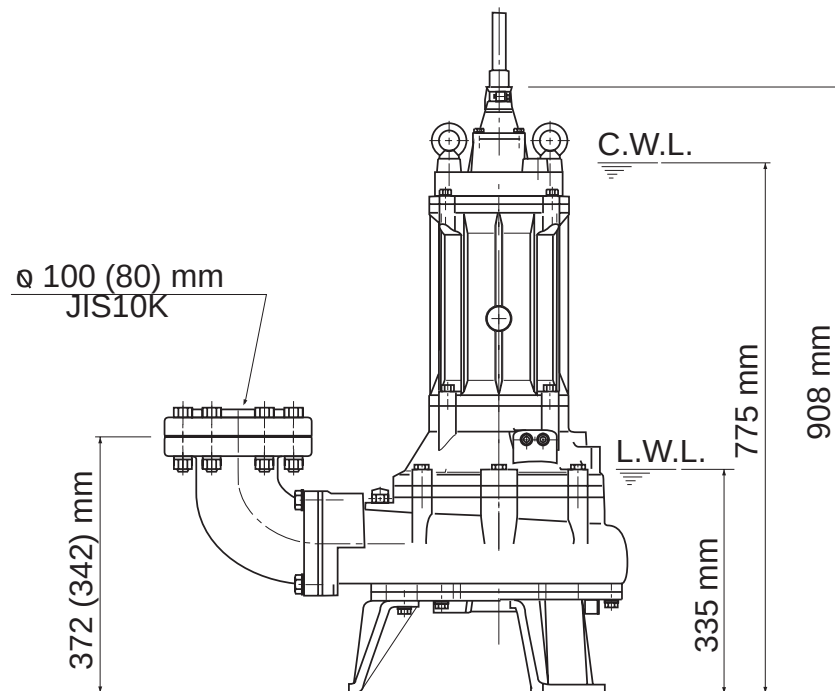
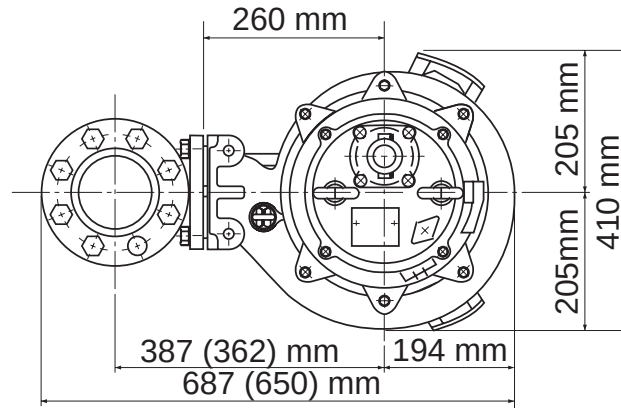
4" (100mm) JIS10K screwed-in mating flange
Guide rail fitting optional

Weight

147 kg (dry weight of the pump without cable)

Dimensional Drawing

100B45.5-52



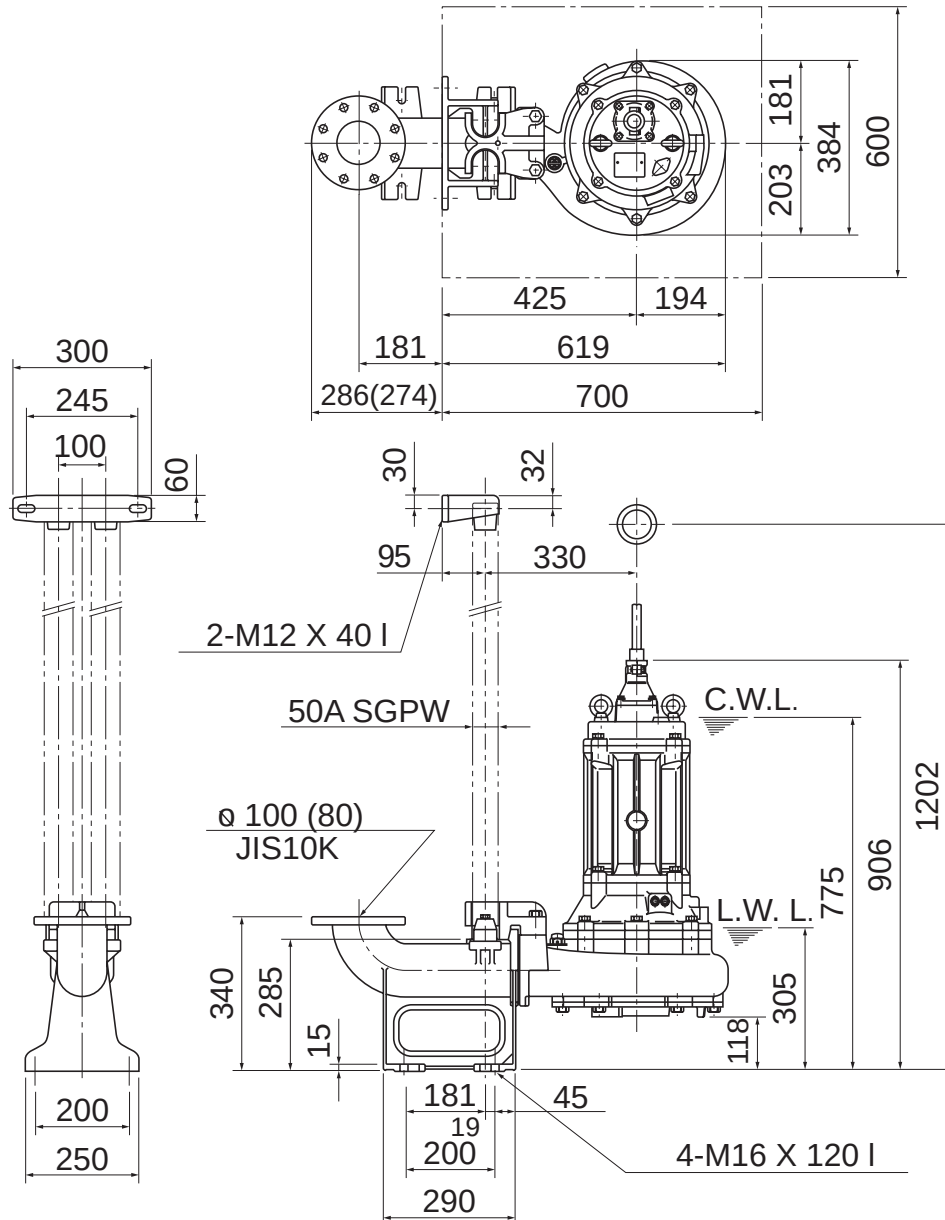
100B45.5-52

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

Dimensional Drawing

TOS100B45.5-52

Dimensions in mm

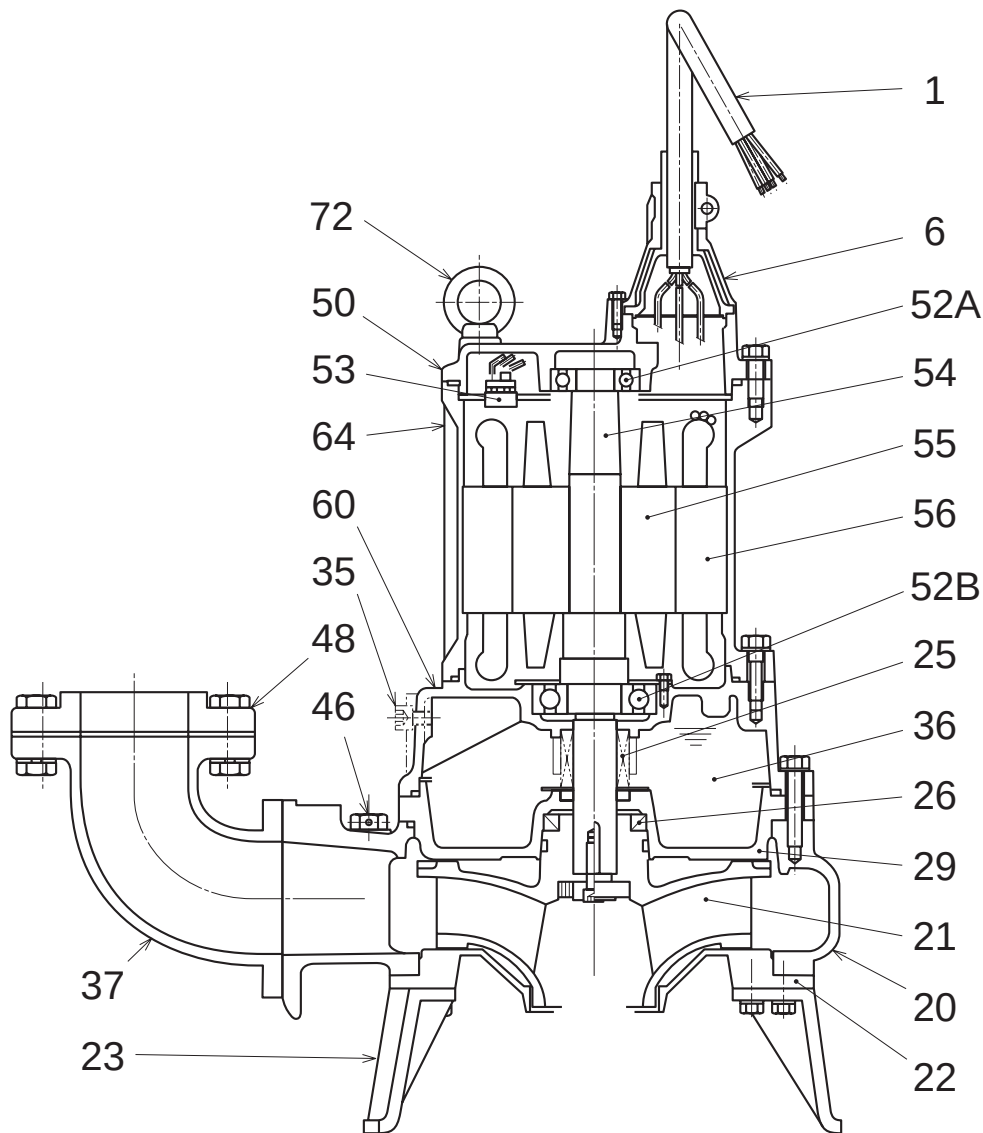


TOS100B45.5-52

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

Sectional Drawing

100B45.5-52

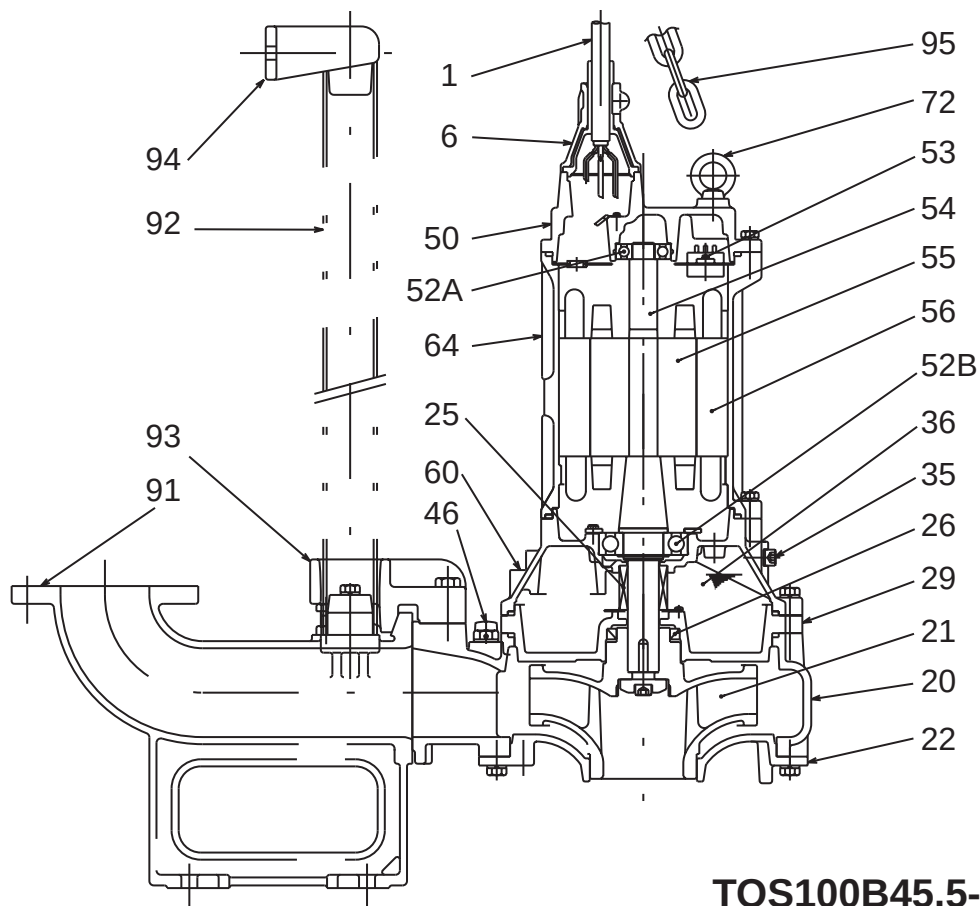


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No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	10m H07RN-F 4Cx2,5mm ²	50	Motor Bracket	1	FC200 (EN-GJL-200)
6	Stuffing Box	1	FC200 (EN-GJL-200)	52A	Upper Bearing	1	6305ZZC3
20	Pump Casing	1	FC200 (EN-GJL-200)	52B	Lower Bearing	1	6309ZZC3
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	Pump Stand	3	FCD450 (EN-GJS-450-10)	55	Rotor	1	
25	Mechanical Seal	1	H-35A	56	Stator Complete	1	
26	Oil Seal	1	TC608212	60	Bearing Housing	1	FC200 (EN-GJL-200)
29	Oil Casing	1	FC200 (EN-GJL-200)	64	Motor Frame	1	FC200 (EN-GJL-200)
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)	72	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				
48	Screwed Flange	1	FC200 (EN-GJL-200)				

Sectional Drawing

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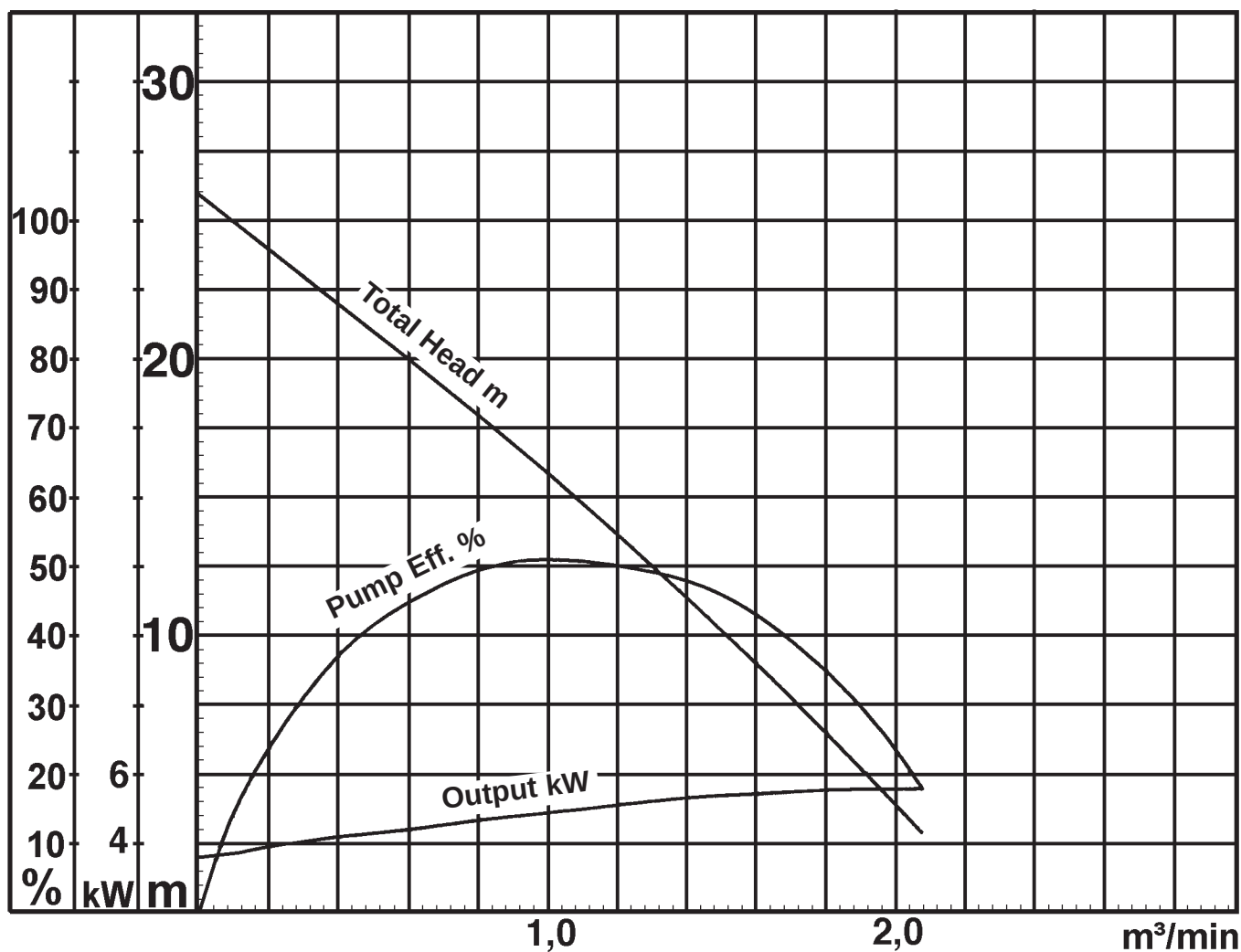
TOS100B45.5-52

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	10m H07RN-F 4Cx2,5mm ²	53	Motor Protector	1	
6	Stuffing Box	1	FC200 (EN-GJL-200)	54	Shaft	1	SUS403 (EN-X6Cr13)
20	Pump Casing	1	FC200 (EN-GJL-200)	55	Rotor	1	
21	Impeller	1	FC200 (EN-GJL-200)	56	Stator Complete	1	
22	Suction Cover	1	FC200 (EN-GJL-200)	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)	91	Duck Foot Bend	1	FC200 (EN-GJL-200)
35	Oil Plug	1	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	FCD450 (EN-GJS-450-10)
50	Motor Bracket	1	FC200 (EN-GJL-200)	95	Lifting Chain	1	SS400 (DIN 1.0040)
52A	Upper Bearing	1	6305ZZC3				
52B	Lower Bearing	1	6309ZZC3				

Pump Performance Curve

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Discharge Bore	100 mm
Total Head	20 m
Capacity	0,6 m ³ /min
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



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