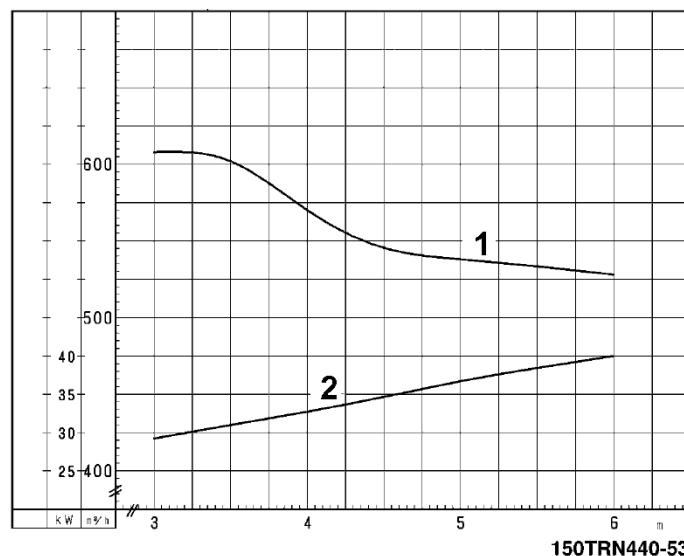
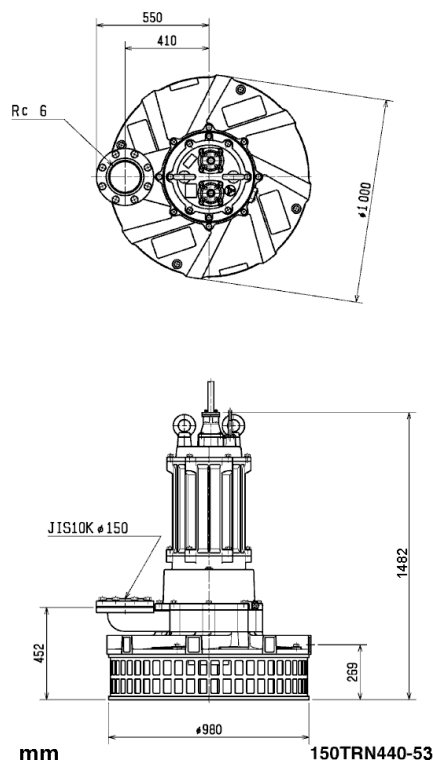




1 ... Air quantity - Water depth

2 ... Output kW - Water depth

Specification

Electric submersible aerator
Degree of protection IP 68
Pressure resistance max. 6m (self-aspiring)
Open type / closed type impeller
Free passage
aeration of activated sludge
(municipal sewage, food industry)

Electric motor

Dry-type submersible induction motor
Insulation class F, 4 poles, 1475 r.p.m.
Starting mode Star-delta-start
Rated voltage 400V, 50Hz, 3-phase
Rated power 40,0 kW
Power uptake 47,0 kW
Rated current 83,0 A
Start current 529,0 A

Cable

20m NSSHÖU 4Cx10mm²
20m NSSHÖU 3Cx10mm²
20m 2PNCT 2Cx1,25mm²

Motor Protection

Circle thermal protector
(snap-action bi-metal device)

Weight

583 kg (dry weight of the pump only without cable)

Air passage

6" Gewindeflansch

Shaft seal

Double inside mechanical seal in oil bath

Primary seal

Silicon carbide on silicon carbide

Secondary seal

Ceramic on carbon

Bearings

Shielded ball bearings, maintenance-free

Materials

Impeller	SCS1 (DIN 1.4008)
Suction cover	SCS1 (DIN 1.4008)
Middle Plate	SCS1 (DIN 1.4008)
Guide vane	FC200 (EN-GJL-200)
Air passage	FC200 (EN-GJL-200)
Bearing Housing	FC200 (EN-GJL-200)
Shaft	SUS420J1 (EN-X20Cr13)

Noise level

74 d-BA under following conditions:
water depth 6,0 mAq

Silencer is set 1,6m above ground level.
Microphone for measurement is placed at a distance of 1m from the silencer and 1,6m above ground level.

Lifting chain (not included)

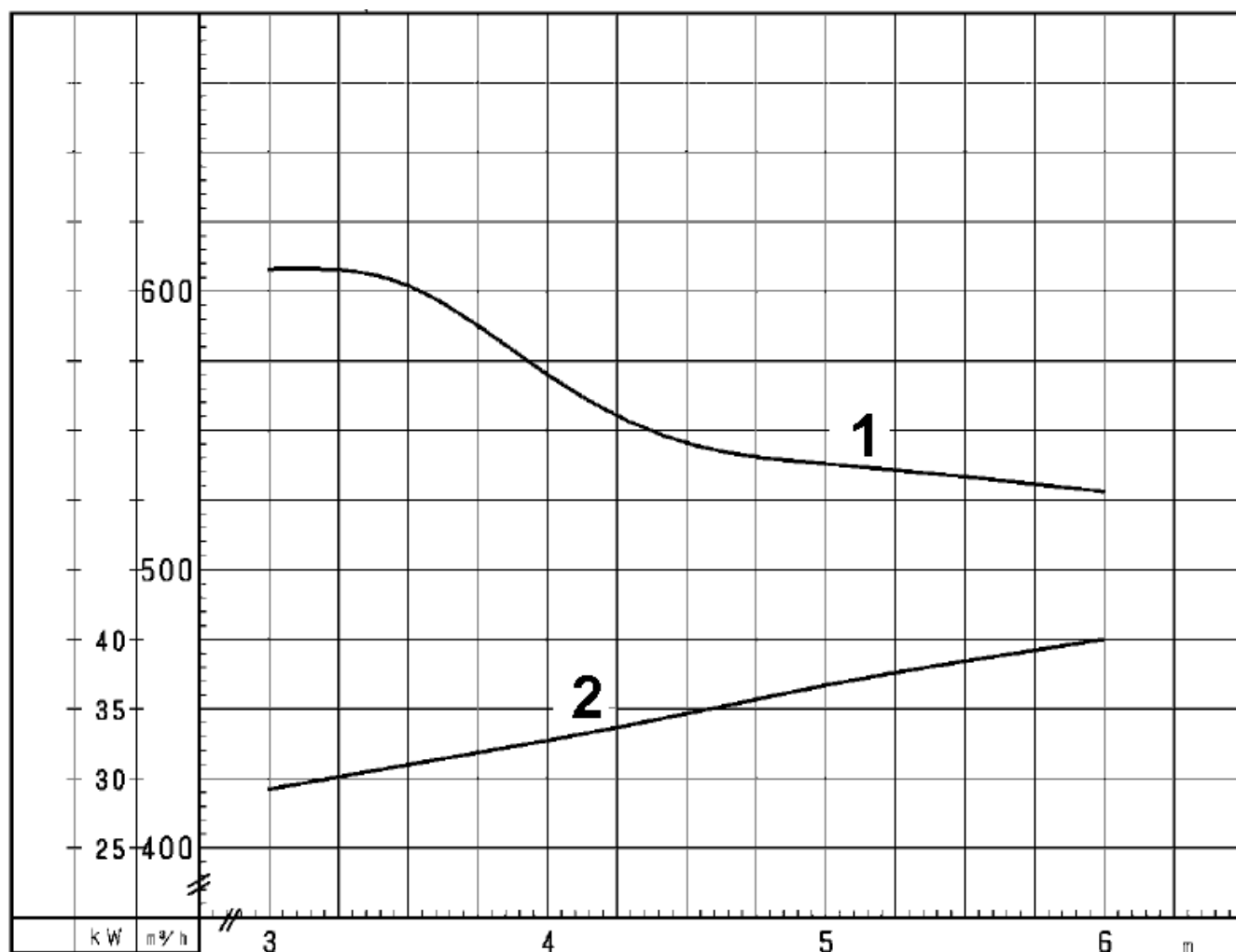
Straight chain ø11mm (1140kg), shackle ø16mm (900kg)

Sling chain ø11mmx8Lx2 (1140kg), shackle ø16mm (900kg)

Performance curve

150TRN440-53

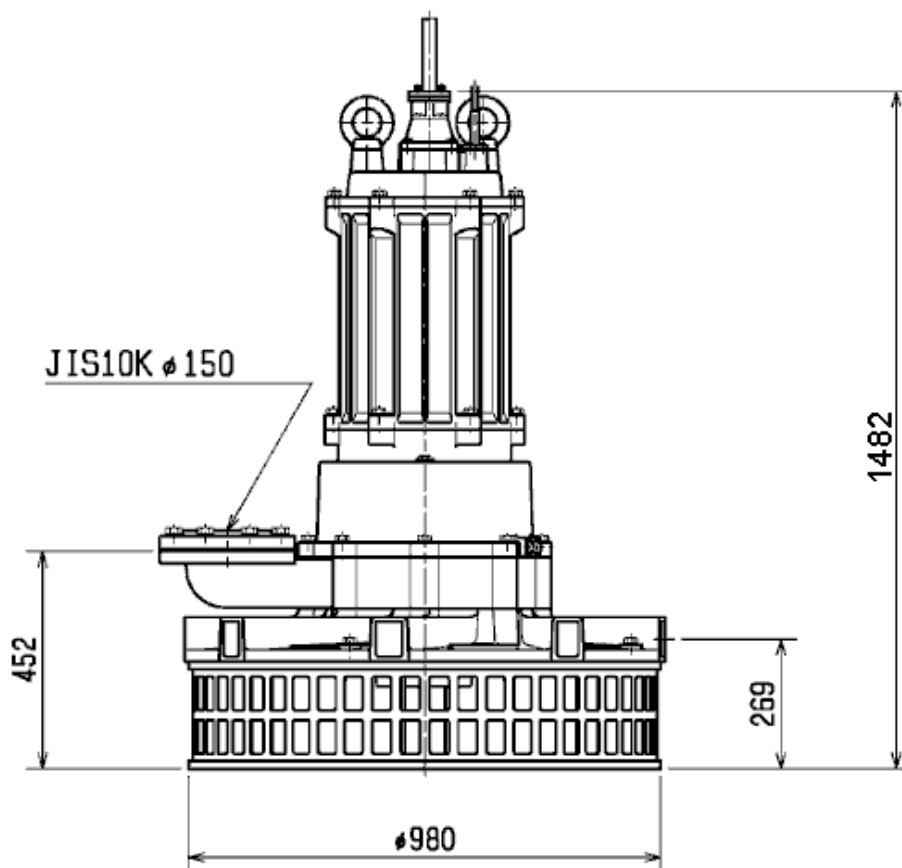
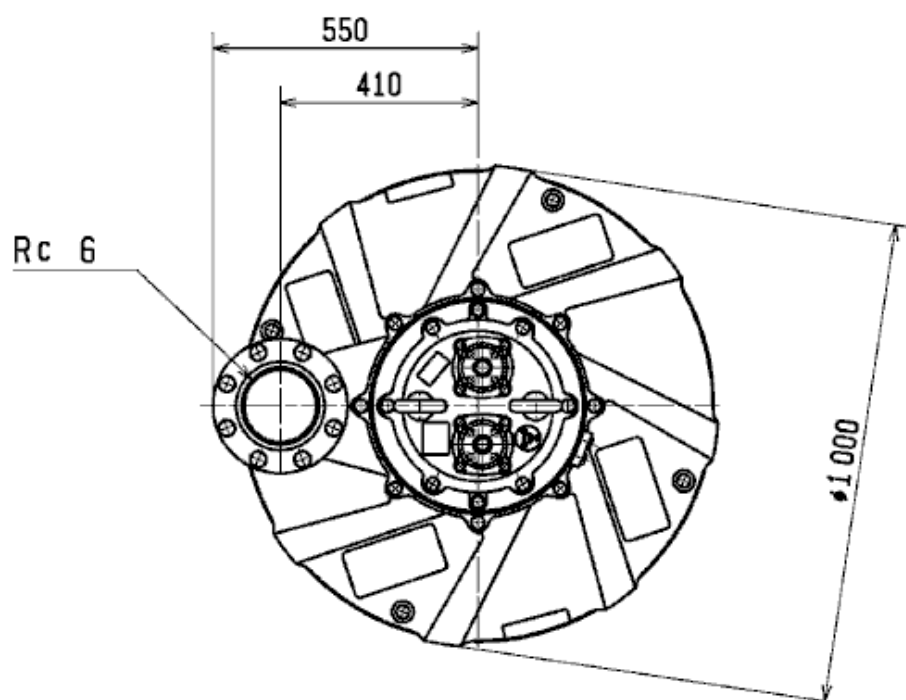
Air passage	6"
Air quantity	528,0 Nm³/h
water depth	6,0 mAq
max. water depth	6,0 mAq
Rated power	40,0 kW
Power input	47,0 kW
Phases	3
Voltages	400 V
Frequency	50 Hz
Rated current	83,0 A
Starting current	529,0 A
Number of poles	4
Speed	1475 U/min
Starting mode	Star-delta-start
Insulation class	F



150TRN440-53

Dimensions

150TRN440-53



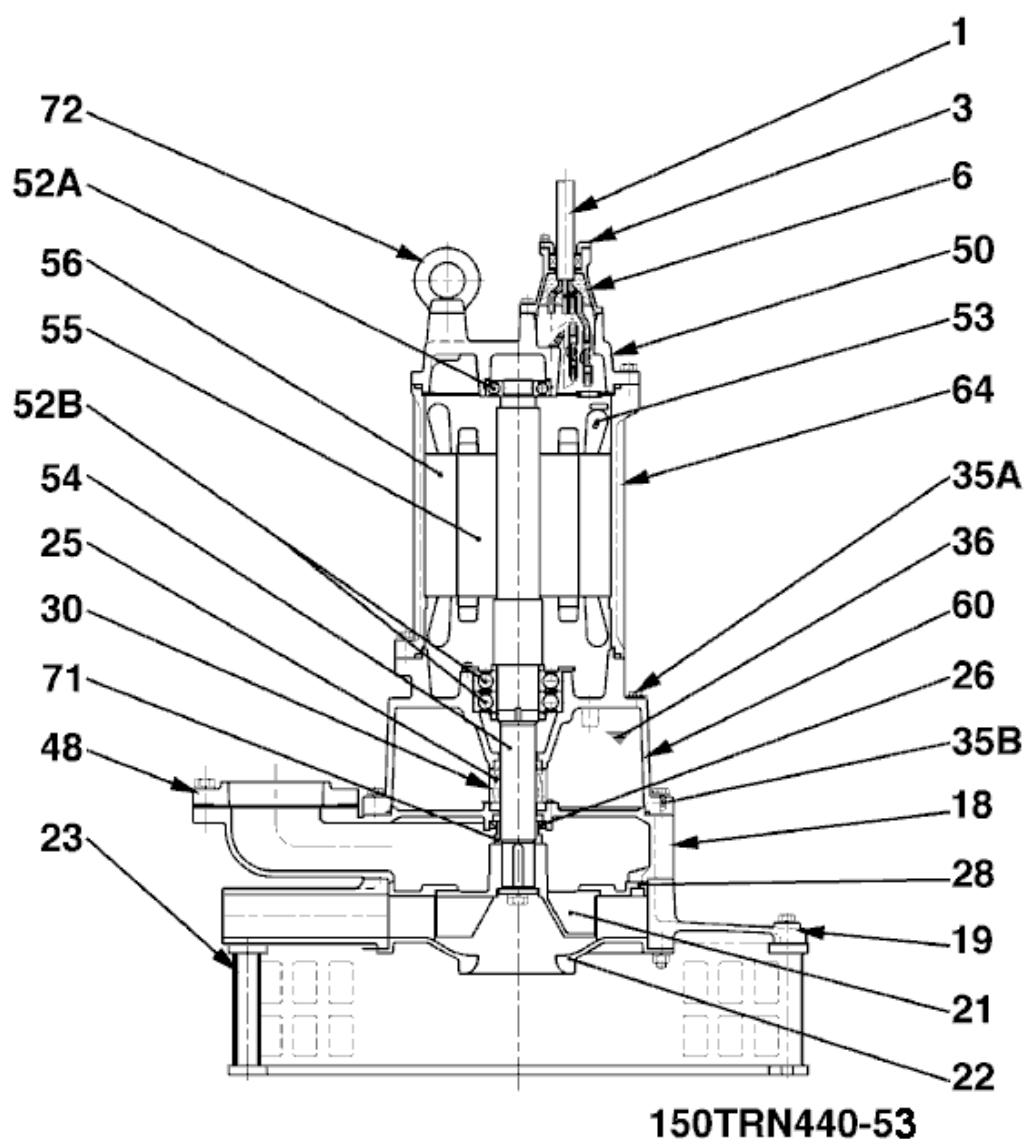
mm

150TRN440-53

CWL: Continuous running water level
LWL: Lowest running water level

Sectional drawing

150TRN440-53



150TRN440-53

No.	Description	Remark	No.	Description	Remark
1	Connection cable (3x)	NSSHÖU	50	Motor cover	FC200 (EN-GJL-200)
3	Gland (2x)	FC200 (EN-GJL-200)	52A	Upper bearing	6310ZZC3
6	Cable entry (2x)	FC200 (EN-GJL-200)	52B	Lower bearing	6314ZZC3
18	Air passage	FC200 (EN-GJL-200)	53	Miniature protector (3x)	.
19	Guide vane	FC200 (EN-GJL-200)	54	Shaft	SUS420J1 (EN-X20Cr13)
21	Impeller	SCS1 (DIN 1.4008)	55	Rotor	.
22	Suction cover	SCS1 (DIN 1.4008)	56	Stator	.
23	Strainer	DIN 1.0043 + SUS 1.4301	60	Bearing Housing	FC200 (EN-GJL-200)
25	Mechanical seal	H-60	64	Motor Frame	FC200 (EN-GJL-200)
26	Oil seal	SC709513	72	Eye screw (2x)	SUS304 (EN-X5CrNi18-10)
28	Middle Plate	SCS1 (DIN 1.4008)			
30	Oil distributor	Plastic			
35A	Oil screw (2x)	SUS304 (EN-X5CrNi18-10)			
35B	Oil screw (2x)	SUS304 (EN-X5CrNi18-10)			
36	Lubricant	Turbine oil (ISO VG32)			
48	Screwed Flange	FC200 (EN-GJL-200)			