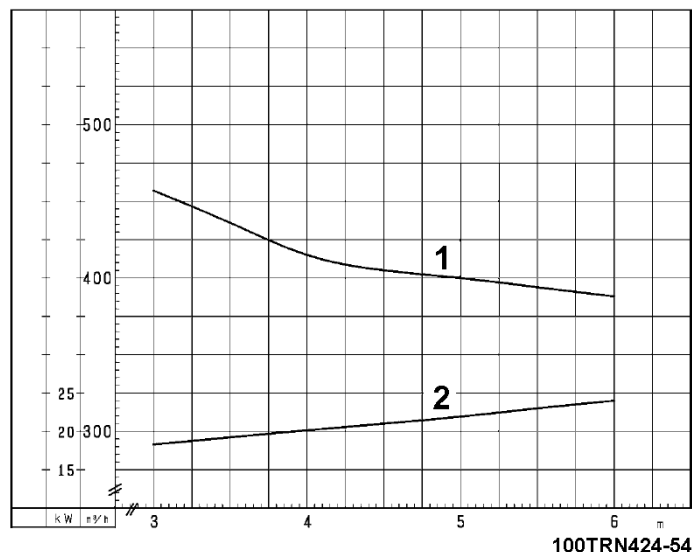
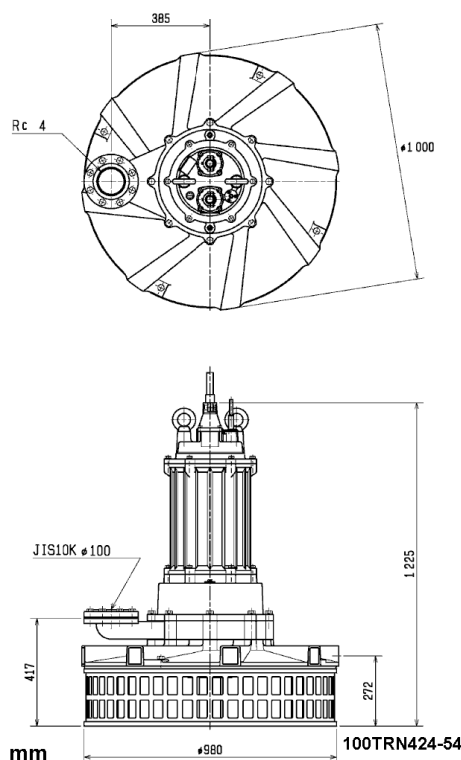




1 ... Air quantity - Water depth

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, 1465 r.p.m.
Starting mode Star-delta-start
Rated voltage 400V, 50Hz, 3-phase
Rated power 24
Power uptake 28,8 kW
Rated current 48,0
Start current 311,0

Cable

20m NSSHÖU 4Cx6mm²
20m NSSHÖU 3Cx6mm²
20m 2PNCT 2Cx1,25mm²

Motor Protection

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

Weight

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

Air passage

4" 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	FC150 (EN-GJL-150)
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)

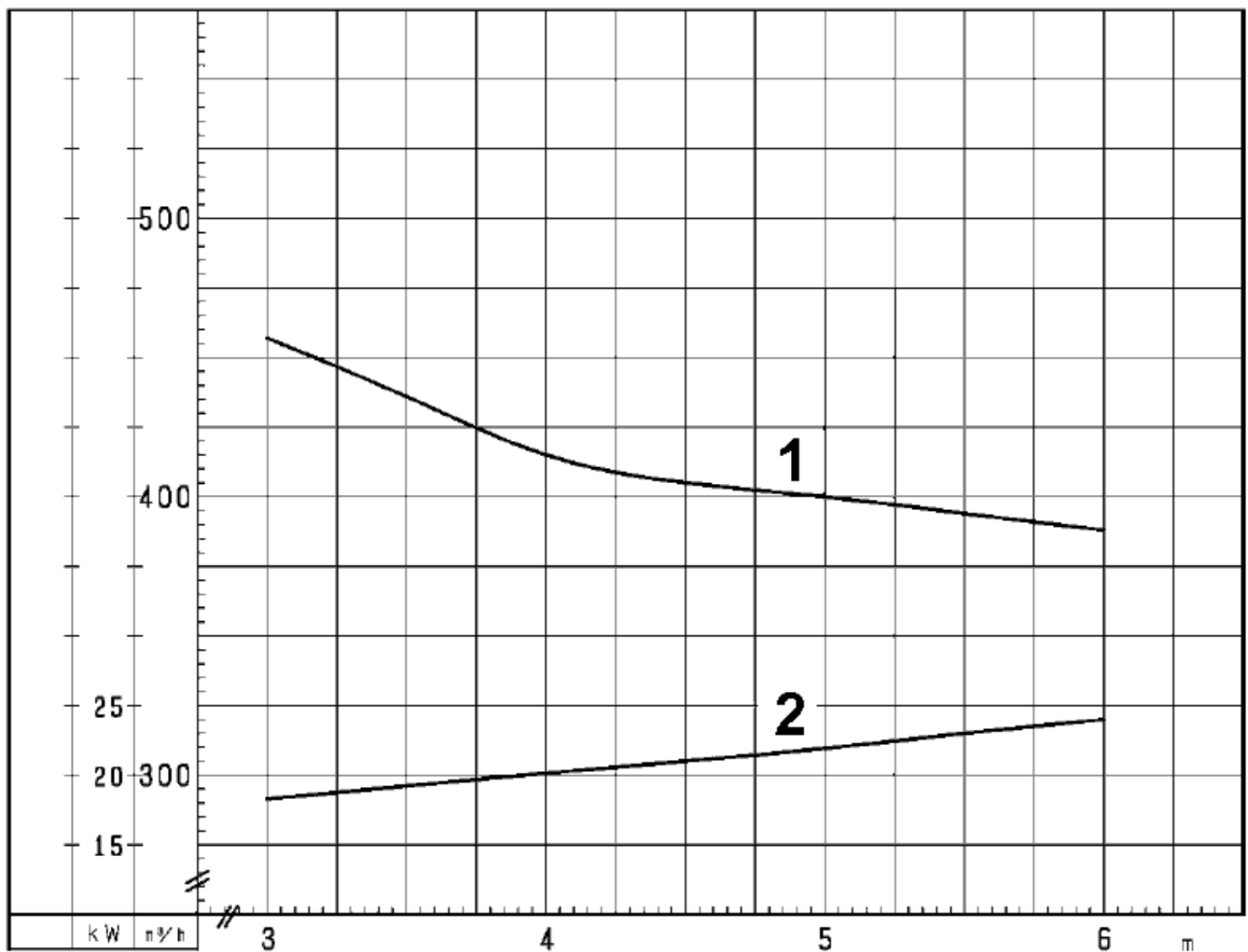
Straight chain ø11mm (1140kg), shackle ø16mm (900kg)

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

Performance curve

100TRN424-54

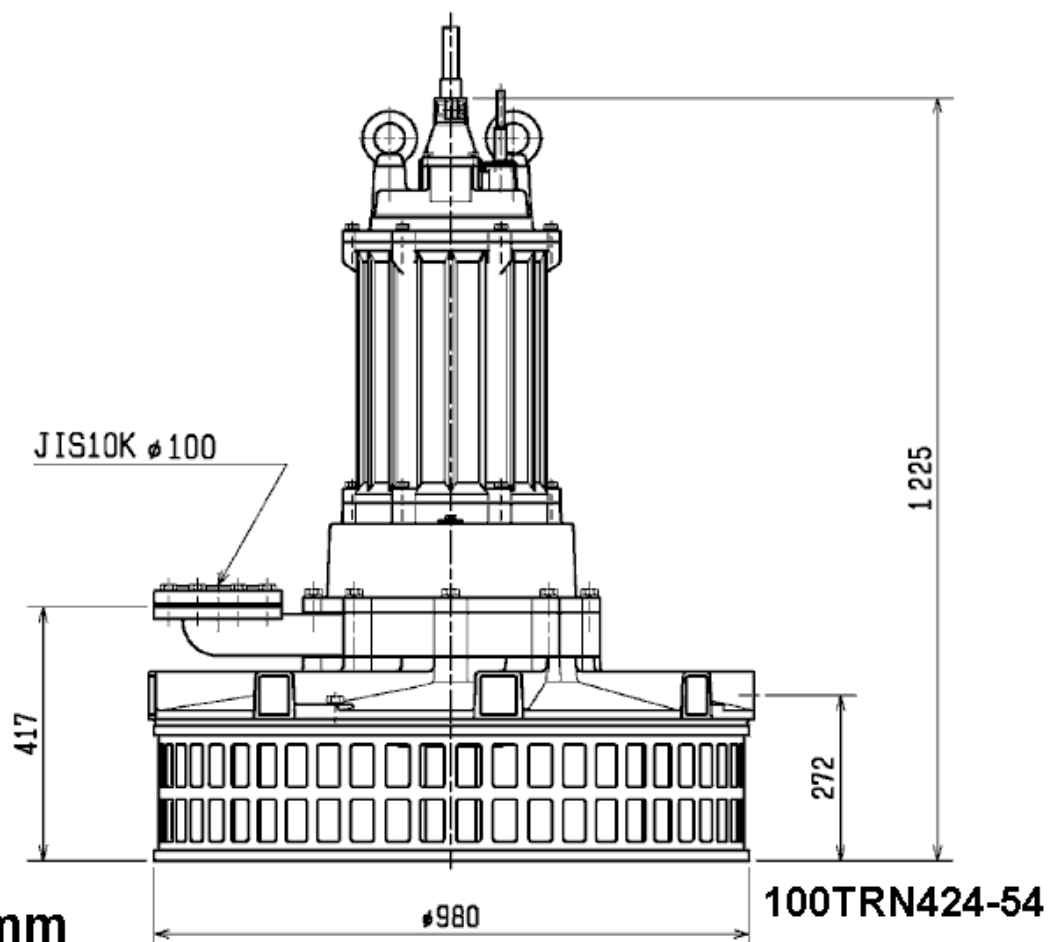
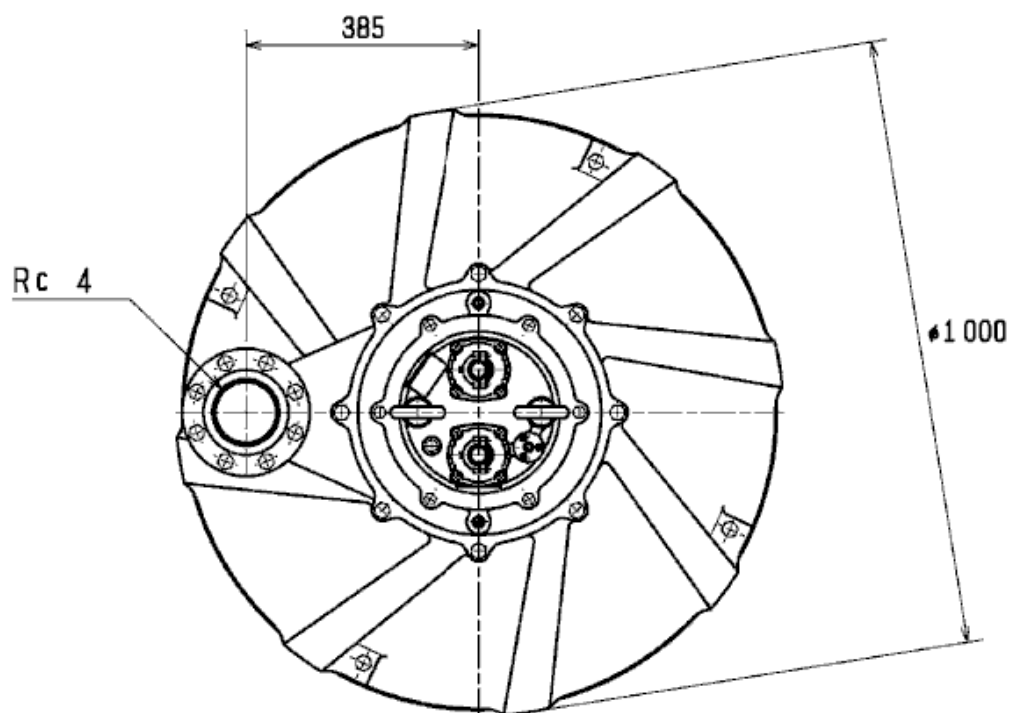
Air passage	4"
Air quantity	388,0 Nm³/h
water depth	6,0 mAq
max. water depth	6,0 mAq
Rated power	24
Power input	28,8 kW
Phases	3
Voltages	400 V
Frequency	50 Hz
Rated current	48,0
Starting current	311,0
Number of poles	4
Speed	1465 U/min
Starting mode	Star-delta-start
Insulation class	F



100TRN424-54

Dimensions

100TRN424-54

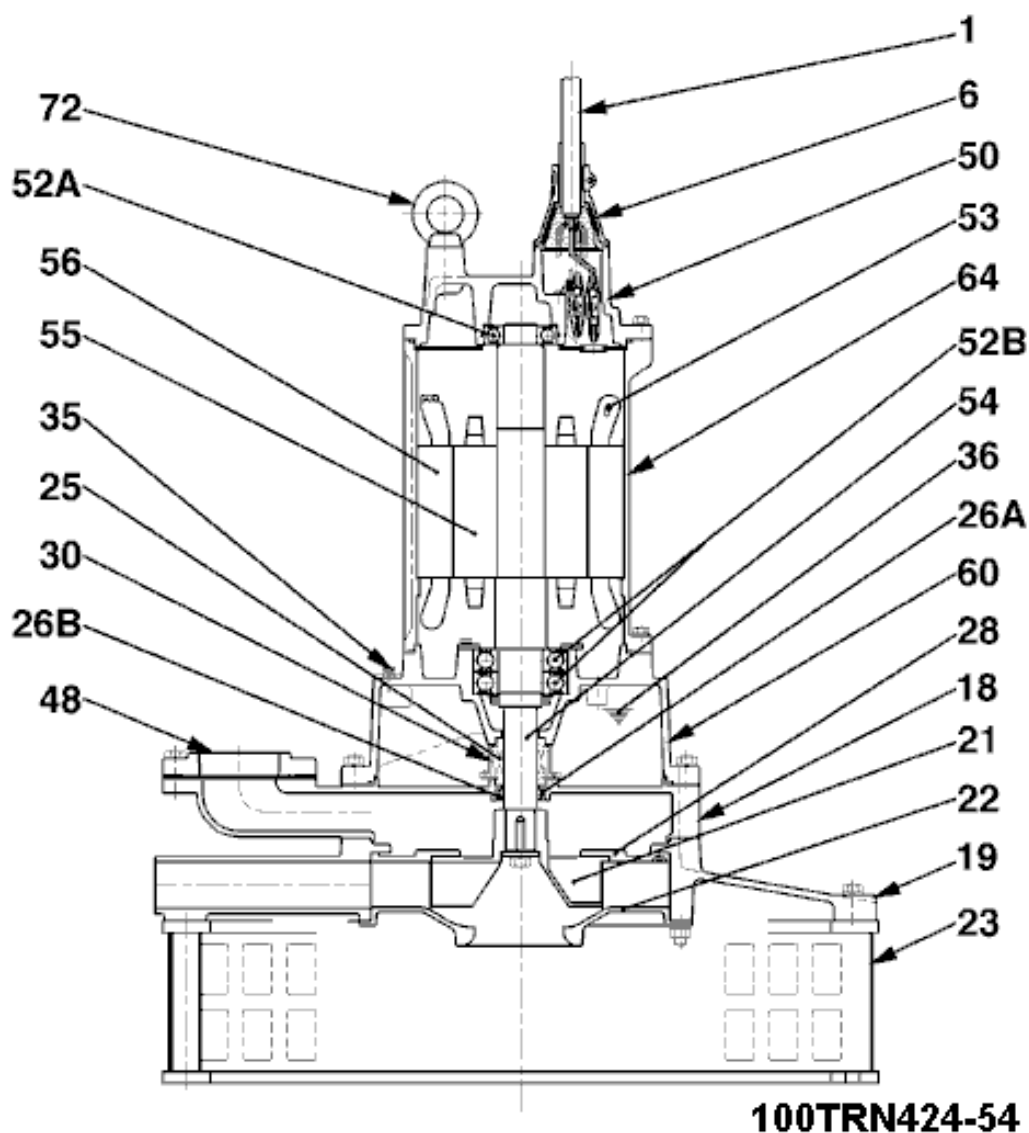


mm

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

Sectional drawing

100TRN424-54



No.	Description	Remark	No.	Description	Remark
1	Connection cable (3x)	NSSHÖU	52A	Upper bearing	6309ZZC3
6	Cable entry (2x)	FC150 (EN-GJL-150)	52B	Lower bearing	6312ZZC3
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	FC150 (EN-GJL-150)
	Mechanical seal	H-45X	64	Motor Frame	FC200 (EN-GJL-200)
26A	Distance piece	Carbon steel pipe	72	Eye screw (2x)	SUS304 (EN-X5CrNi18-10)
26B	Oil seal	VC45686			
28	Middle Plate	SCS1 (DIN 1.4008)			
30	Oil distributor	Plastic			
35	Oil screw (2x)	SUS304 (EN-X5CrNi18-10)			
36	Lubricant	Turbine oil (ISO VG32)			
48	Screwed Flange	FC200 (EN-GJL-200)			
50	Motor cover	FC200 (EN-GJL-200)			