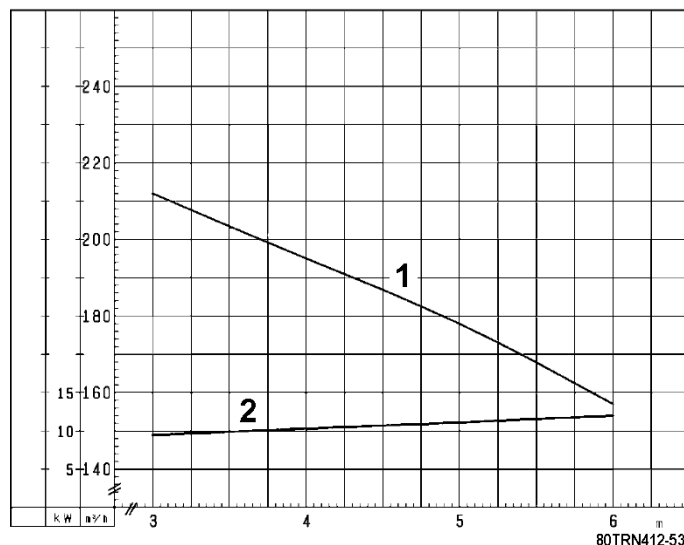
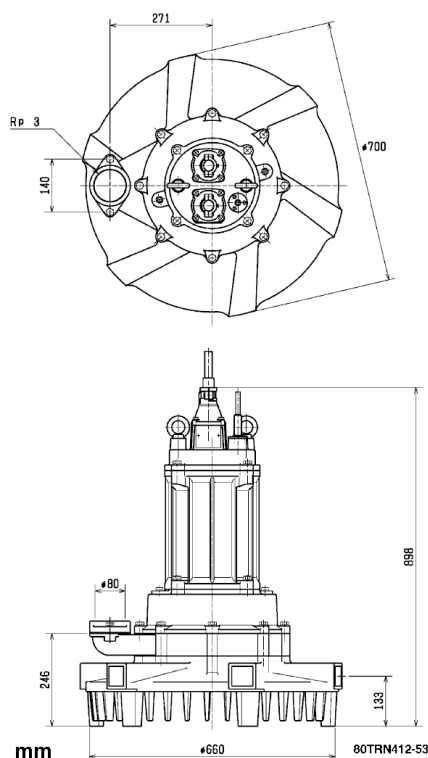




1 ... Air quantity - Water depth

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, 1445 r.p.m.
Starting mode Star-delta-start
Rated voltage 400V, 50Hz, 3-phase
Rated power 12,0 kW
Power uptake 14,8 kW
Rated current 25,7 A
Start current 128,0 A

Cable

10m NSSHÖU 4Cx2,5mm²
10m NSSHÖU F 3Cx2,5mm²
10 2PNCT 2Cx1,25mm²

Motor Protection

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

Weight

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

Air passage

3" 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	SUS410 (EN-X10Cr13)
Guide vane	FC200 (EN-GJL-200)
Air passage	FC200 (EN-GJL-200)
Bearing Housing	FC150 (EN-GJL-150)
Shaft	SUS420J2 (EN-X30Cr13)

Noise level

73 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)

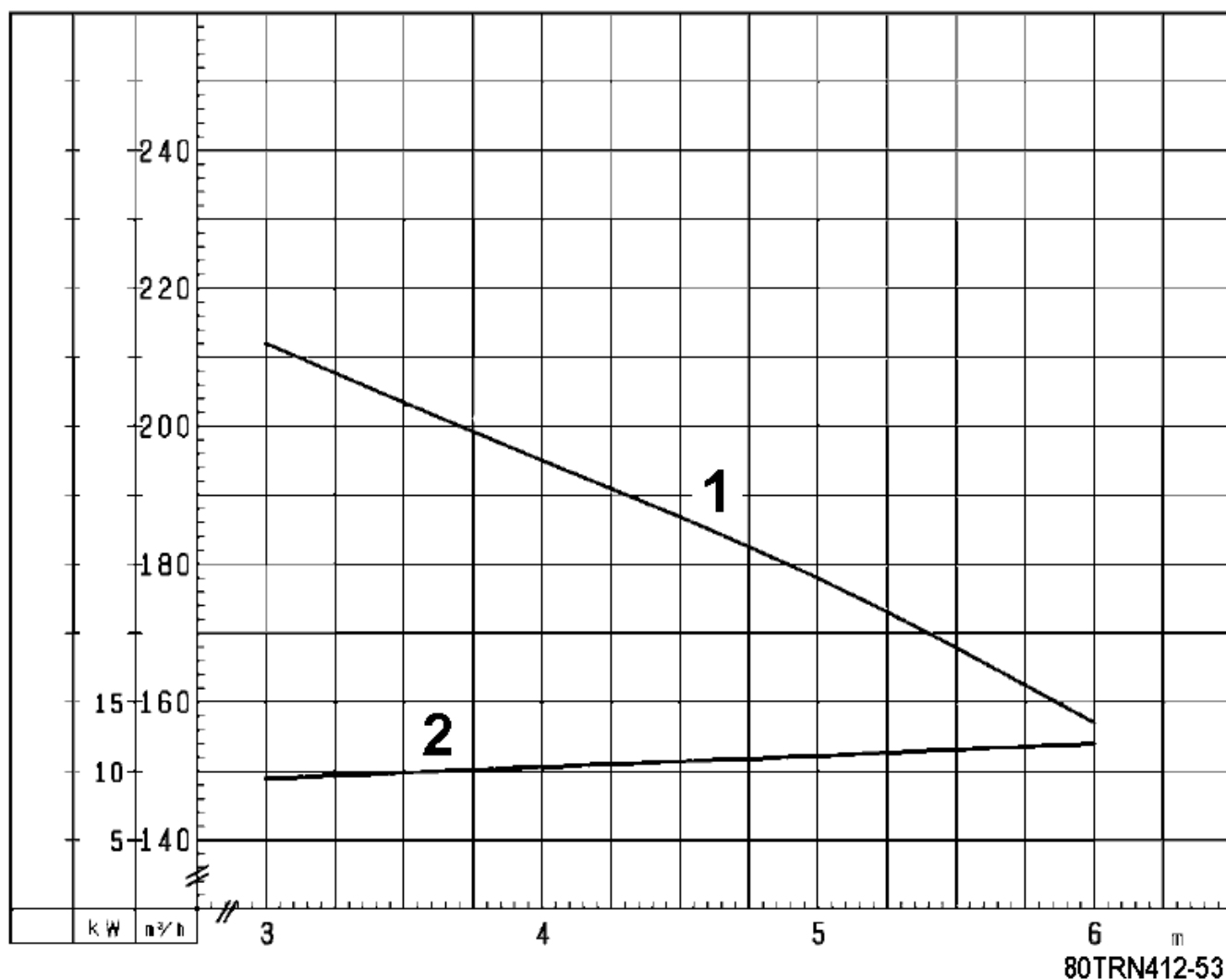
Straight chain ø9mm (760kg), shackle ø10mm (400kg)

Sling chain ø9mmx7Lx2 (760kg), shackle ø10mm (400kg)

Performance curve

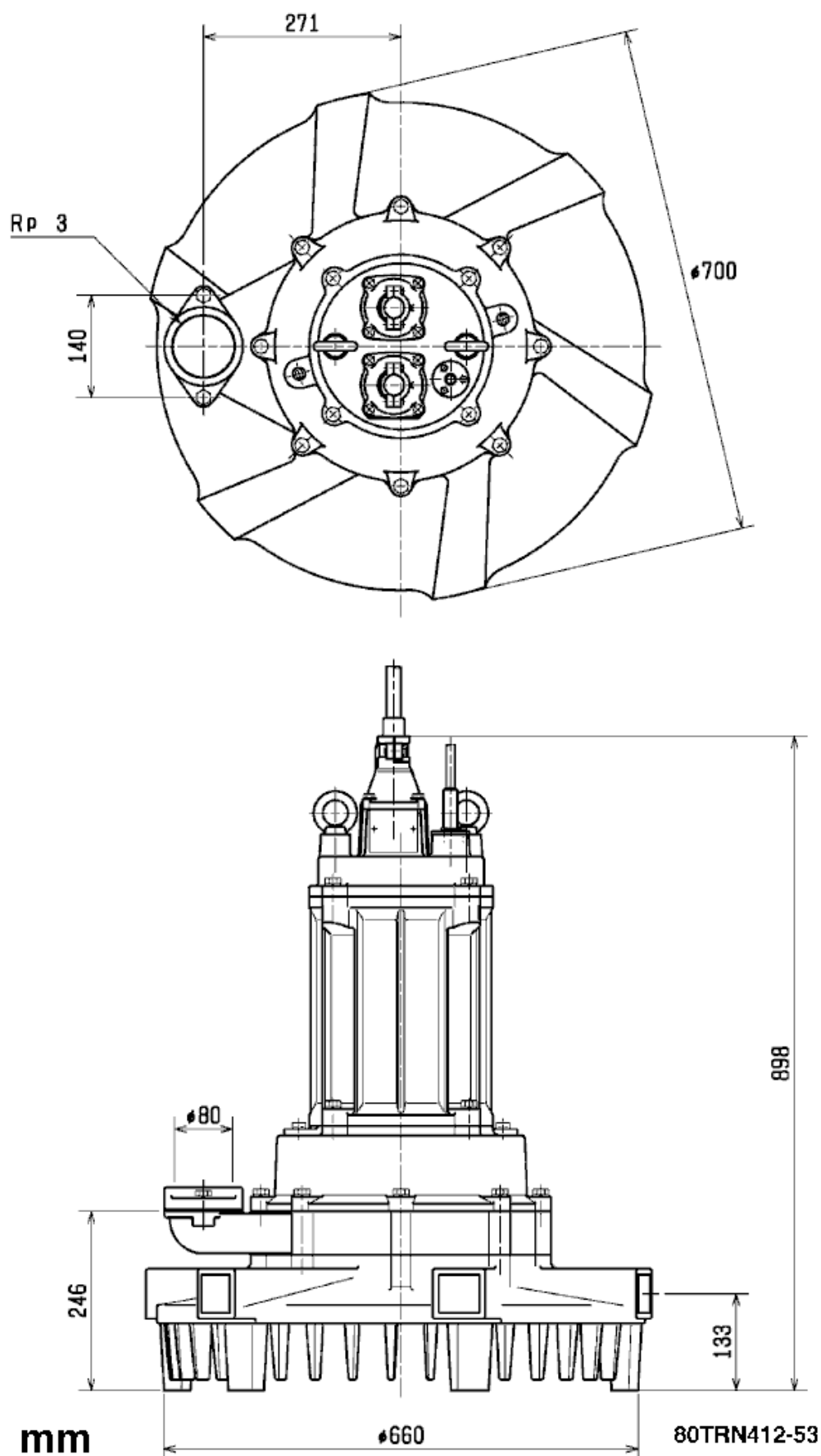
80TRN412-53

Air passage	3"
Air quantity	157,0 Nm³/h
water depth	6,0 mAq
max. water depth	6,0 mAq
Rated power	12,0 kW
Power input	14,8 kW
Phases	3
Voltages	400 V
Frequency	50 Hz
Rated current	25,7 A
Starting current	128,0 A
Number of poles	4
Speed	1445 U/min
Starting mode	Star-delta-start
Insulation class	F



Dimensions

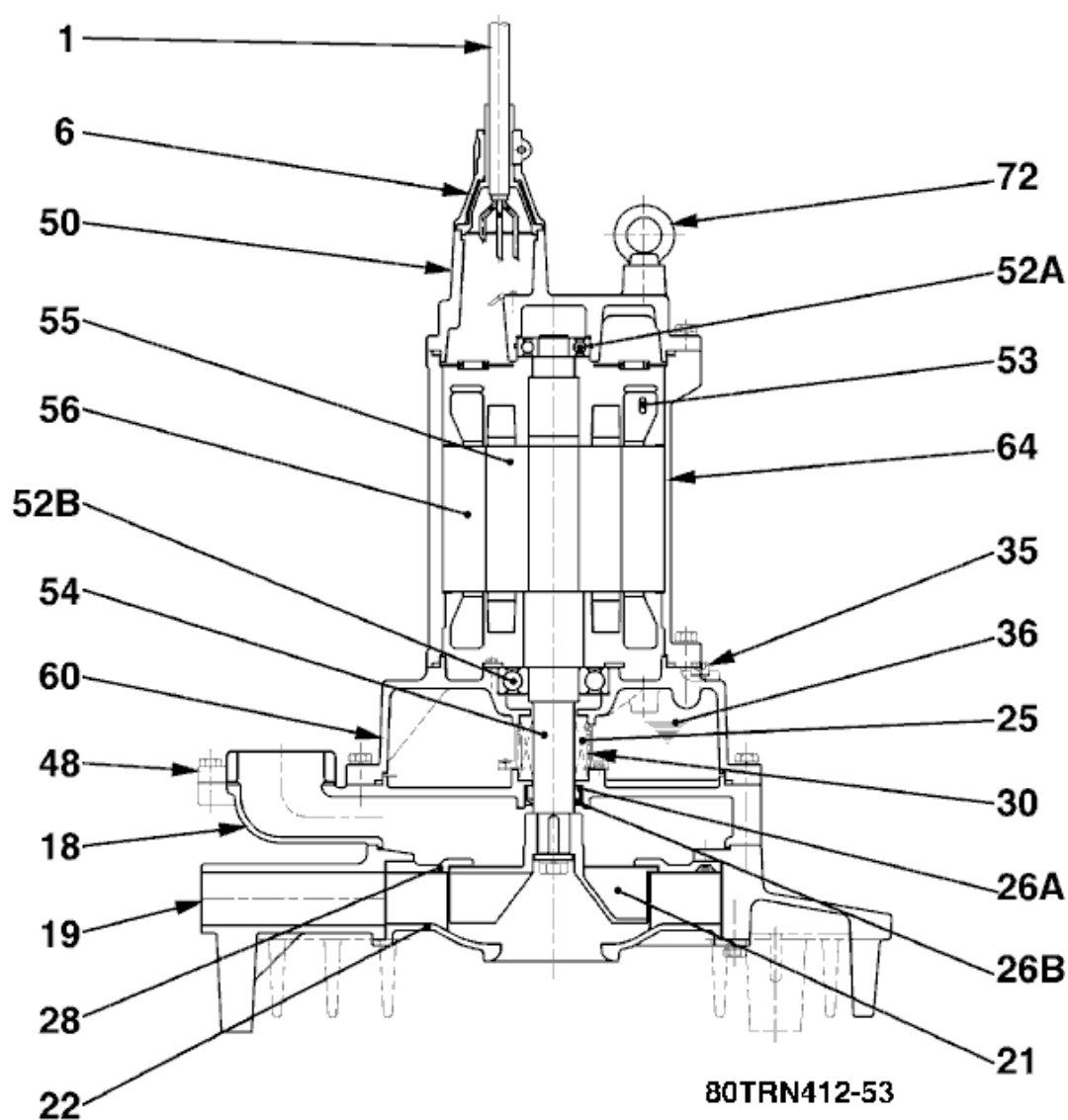
80TRN412-53



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

Sectional drawing

80TRN412-53



No.	Description	Remark	No.	Description	Remark
1	Connection cable (3x)	NSSHÖU	52B	Lower bearing	6310ZZC3
6	Cable entry (2x)	FC150 (EN-GJL-150)	53	Miniature protector (3x)	.
18	Air passage	FC200 (EN-GJL-200)	54	Shaft	SUS420J2 (EN-X30Cr13)
19	Guide vane	FC200 (EN-GJL-200)	55	Rotor	.
21	Impeller	SCS1 (DIN 1.4008)	56	Stator	.
22	Suction cover	SCS1 (DIN 1.4008)	60	Bearing Housing	FC150 (EN-GJL-150)
25	Mechanical seal	H-40X	64	Motor Frame	FC200 (EN-GJL-200)
26A	Distance piece	Carbon steel pipe	72	Eye screw (2x)	SUS304 (EN-X5CrNi18-10)
26B	Oil seal	VC40586			
28	Middle Plate	SUS410 (EN-X10Cr13)			
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)			
52A	Upper bearing	6306ZZC3			