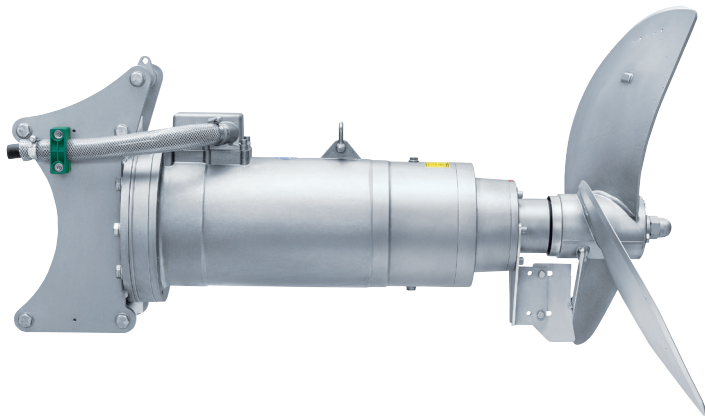# SUMA

Submersible motor
OPTIMIX 3A 250-270

Powerful
Flexible Application
High Efficiency

Application

Dry matter content up to 12 %

Substrate temperature up to 55°C

pH-value 5.5 - 8.2

Optional ss316 pH-value 4.5 - 8.2

Motor

Motor power: 25 kW

400 V, 50 Hz, special tensions on request

Protection class IP 68, pressure resistant 10 m

PTC thermistors 130°C for overheat protection

Separate oil chamber, turbine oil

Gear

Flange mounted planetary gear,

Reduction ratio i = 5.35

Longlife gear oil

Oil change after 8,000 operating hours

Electric cable

Pressed cable gland, cable standard length 10 m

Cable 4 x 10 + 4 x 1 mm², Ø 26 mm, shielded

Resistant against biomass microbes

Strain relief 800 N

Corrosion protection

Housing and guiding unit in ss304

Optional completely manufactured in ss316

Propeller

3-blade propeller, dynamically balanced

Optimix 3A | 25 kW | propeller HD+ 900 | 270 rpm

Standard is ss304, optional hardened ss304 or ss316

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:

25 kW: 120 / 150 mm   square mast

Special sizes on request

Bearing

Bearing flange with mechanical seal SiC/SiC

2 tapered roller bearings to absorb the axial forces

Shaft is hardened steel

Bearing flange with separat oil chamber, Longlife gear oil
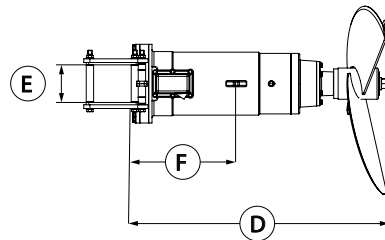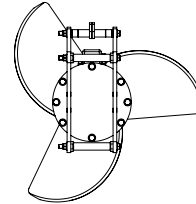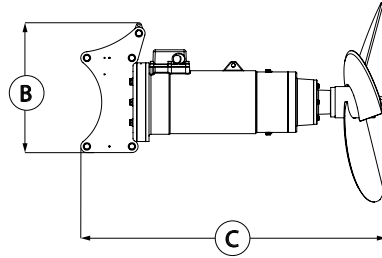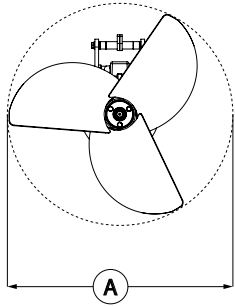
Oil change interval every 8,000 operating hours

Ex zone

Authorized for Ex-Zone 2

ATEX-Classification C€ ⟨Ex⟩ II 3G Ex nA ck T3 Gc

Control box (optional)

Soft start or frequency converter

SUMA

Submersible motor
OPTIMIX 3A 250-270

Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]						
3A 250-270	900	530	1.280	1.055	150 (120)	430						

Technical Data

Type	Rated Power [kW]	Rated Voltage [V]	Full load current [A]	Frequency [Hz]	Power factor cos φ	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate [m³/min]	Weight approx. [kg]
3A 250-270	25	400	48	50	0.84	5.35	270	900	4.5	3.6	134	260

Subject to technical changes

* measured in water with 1.2 distance